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<110> Xu, Jiangchun
Dillon, Davin C.
Mitcham, Jennifer L.
Harlocker, Susan L.
Jiang, Yuqiu
Kalos, Michael D.
Retter, Marc W.
Stolk, John A.
Day, Craig H.
Vedvick, Thomas S.
Carter, Darrick
Li, Samuel X.
Wang, Aijun
Skeiky, Yasir A.W.
Hepler, William T.
Henderson, Robert A.
Hural, John
McNeill, Patricia D.
Houghton, Raymond L.
Vinals de Bassols, Carlota
Foy, Teresa
Fanger, Gary R.
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<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND
DIAGNOSIS OF PROSTATE CANCER

<130> 210121.427C26

<140> US

<141> 2001-06-29

<160> 990

<170> FastSEQ for Windows Version 3.0

 $\langle 210 \rangle$ 1

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (814)$

<223> n = A, T, C or G

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<213> Homo sapien

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ctaaagtctg atgaacttcc caatcagatg agcatggatg attggccaga aatgaagaag 180
aagtttgtag atgtatttgc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc 240
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gccgccaccg cgggtggagct ccagcttttg ttcccttttag tgagggttaa ttgcgcgctt 480
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cattaattgc gttgcgctca ctgccgctt tccagtcggg aaaactgtcg tgccactgcn 660
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tcgctcattg atcctngcnc ccggtcttcg gctgcgngga acggttcact cctcaaaggc 780
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<210> 3
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<212> DNA
<213> Homo sapien

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<220>
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<223> n = A,T,C or G

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tctcaaaaag tcagaaccgg agtcacacag gcatctgtgc cgtcaaagat ttgacaccac 180
tctgccttcg tcttctttgc aaatacatct gcaaacttct tcttcatttc tggccaatca 240

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acccccacnt nnaccgctta cactttgccg gcgccttanc gcccgctccc tttcnccttt 720
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<210> 4
<211> 828
<212> DNA
<213> Homo sapien

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<220>
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<223> n = A,T,C or G

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tcggaacact ggctgtctct gaagacttct cgctcagttt cagtgaggac acacacaaag 180
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ctaactcaca ttaattgctg tgcgctcact gcccgctttc caatcnggaa acctgtcttg 660
ccncttgcat tnatgaatcn gccaaccccc ggggaaaagc gtttgctgtt tgggcgctct 720
tccgcttctt cnetcantta ntccctnnc tcggtcattc cggctgcngc aaaccggttc 780
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<210> 5
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<212> DNA
<213> Homo sapien

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<220>
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<222> (1)...(834)
<223> n = A,T,C or G

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attttataac aatcaacacc tgtggctttt aaaatttggg tttcataaga taattttatac 180
tgaagtaaat ctagccatgc ttttaaaaaa tgcttttaggt cactccaagc ttggcagtta 240
acatttgga taaacaataa taaaacaatc acaattttaat aaataacaaa tacaacattg 300
taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360
aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac tcagccctga 420

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110230 110230 110230

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tcaccaaccc	ctcagttata	aaaaattttc	aagttatatt	agtcataata	cttgggtgtgc	600
ttattttaaa	ttagtgtctaa	atggattaag	tgaagacaac	aatgggtcccc	taatgtgatt	660
gatattggtc	atttttacca	gcttctaaat	ctnaactttc	aggcttttga	actggaacat	720
tgnatnacag	tgttccanag	ttncaaccta	ctggaacatt	acagtgtgct	tgattcaaaa	780
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<210> 6
 <211> 818
 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(818)
 <223> n = A,T,C or G

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tgtaaagtga	aatattagtt	ggcggtatga	gcagatagtg	aggaaagttg	agccaataat	180
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aatggtgaag	ggagactcga	agtactctga	ggcttgtagg	agggtaaaat	agagaccag	300
taaaattgta	ataagcagtg	cttgaattat	ttggtttcgg	ttgttttcta	ttagactatg	360
gtgagctcag	gtgattgata	ctcctgatgc	gagtaatacg	gatgtgttta	ggagtgggac	420
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aggggctagg	ctggagtggg	aaaaggctca	gaaaaatcct	gcgaagaaaa	aaacttctga	540
ggtaataaat	aggattatcc	cgtatcgaag	gcctttttgg	acaggtggtg	tgtggtggcc	600
ttggtatgtg	ctttctcgtg	ttacatcgcg	ccatcattgg	tatatggtta	gtgtgttggg	660
ttantangg	ctantatgaa	gaacttttgg	antggaatta	aatcaatngc	ttggccggaa	720
gtcattanga	nggctnaaaa	ggccctgtta	ngggtctggg	ctnggtttta	cccnacccat	780
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<210> 7
 <211> 817
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
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 <223> n = A,T,C or G

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ggtttgctcc	acagatttca	gagcattgac	cgtagtatac	ccccggtcgt	gtagcgggtga	180
aagtggtttg	gttttagacgt	ccgggaattg	catctgtttt	taagcctaata	gtggggacag	240
ctcatgagtg	caagacgtct	tgtgatgtaa	ttattatacn	aatgggggct	tcaatcggga	300
gtactactcg	attgtcaacg	tcaaggagtc	gcaggtcgcc	tggttctagg	aataatgggg	360
gaagtatgta	ggaattgaag	attaatccgc	cgtagtcggg	gttctcctag	gttcaatacc	420
attggtggcc	aattgatttg	atggtaaggg	gagggatcgt	tgaactcgtc	tgttatgtaa	480
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tcaaacngtc	tctanttcct	gaaacgtctg	aaatgttaat	aanaattaan	tttngttatt	600
gaatnttngg	gaaaagggt	tacaggacta	gaaaccaa	angaaaanta	atnntaangg	660
cnttatcntn	aaaggtmata	accnctccta	tnatcccacc	caatngnatt	ccccacncnn	720
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<210> 8
 <211> 799
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 <213> Homo sapien

<220>
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tctttgngt	gagcccatg	tccatctggg	ccactgtcng	gaccaccttt	ngggagtgtt	480
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gttnaaattg	ttangcnccc	nccnntcccn	cnnccnnan	cccgaaccnn	annttnnann	720
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<210> 9
 <211> 801
 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(801)
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caaggacaag	gccaccaggt	gcgggggccg	aagcccacat	gacccctact	ctatgagcaa	180
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caggtcatgg	ggttgngnc	caactggggg	ccncaacgca	aaanggcnc	gggcctcngn	300
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ctacatacgc	cggantcnc	notcccgtt	tgtccctatc	cacgtncan	caacaaattt	480
cncctantg	caccnatccc	caenttttnc	agntttccnc	nncngcttc	cttntaaaag	540
ggttganccc	cggaaaatnc	cccaaagggg	gggggcnngg	taccaactn	ccccctnata	600
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[illegible]

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<211> 772
<212> DNA
<213> Homo sapien
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<223> n = A,T,C or G
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accaacaggc	cacatcctga	taaaaggtaa	gaggggggtg	gatcagcaaa	aagacagtgc	180
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ctacattaaa	cgaagctgca	ggttaagggg	cttanagatg	ggaaaccagg	tgactgagtt	360
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<400> 13

<210>	14
<211>	816
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<213> Homo sapien

<220>

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<223> n = A,T,C or G

<400> 14

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ggcaggtcca	cgcagtgcc	ttgtcactg	gggaaatgga	tgcgctggag	ctcgtcaaaag	180
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tganccccc	anctgcctct	caaangcccc	accttgacac	ccccgacagg	ctagaatgga	420
atcttcttcc	cgaaggttag	ttnttcttgt	tgcccaancc	ancccntaa	acaaactctt	480
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gggacaaggt	aantngccnt	cctttnaatt	cccnancntn	ccccctggtt	tgggggtttt	720
cncnctccta	ccccagaaan	nccgtgttcc	cccccaacta	ggggccnaaa	ccnnttnttc	780
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<210> 15

<211> 783

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(783)

<223> n = A,T,C or G

<400> 15

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aagacccaaa	ccaggtggaa	ctgtggggac	tcaaggaang	cacctacctg	ttccagctga	180
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ccc						783

<210> 16

<211> 801

<212> DNA

<213> Homo sapien

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<220>
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 <222> (1)...(801)
 <223> n = A,T,C or G

<400> 16

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ttggctgtgt	tggtgacgtt	gtcattgcaa	cagaatgggg	gaaaggcact	gttctctttg	180
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cacttgctct	ccgtcttagc	accatagcag	cccangaaac	caagagcaaa	gaccacaacg	480
ccngetgcga	atgaaagaaa	ntaccacagt	tgacaaactg	catggccact	ggacgacagt	540
tggcccgaan	atcttcagaa	aagggatgcc	ccatcgattg	aacacccana	tgccactgc	600
cnacagggct	gcncncncn	gaaagaatga	gccattgaag	aaggatcntc	ntggtcttaa	660
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 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(740)
 <223> n = A,T,C or G

<400> 17

gtgagagcca	ggcgtccctc	tgccctgccca	ctcagtggca	acaccgggga	gctgttttgt	60
cctttgtgga	gcctcagcag	ttccctcttt	cagaactcac	tgccaagagc	cctgaacagg	120
agccaccatg	cagtgtctca	gtttcattaa	gaccatgatg	atcctcttca	atttgctcat	180
ctttctgtgt	ggtgcagccc	tggtggcagt	gggcatctgg	gtgtcaatcg	atggggcatc	240
ctttctgaag	atcttcgggc	cactgtcgtc	cagtgccatg	cagtttgtca	acgtgggcta	300
cttcctcatc	gcagccggcg	ttgtggtctt	tgctcttggt	ttcctgggct	gctatgggtg	360
taagacggag	agcaagtgtg	ccctcgtgac	gttctctctc	atcctcctcc	tcattcttcat	420
tgctgaagtt	gcagctgctg	tggtcgccct	ggtgtacacc	acaatggctg	aaccattcct	480
gacgttgctg	gtantgcctg	ccatcaanaa	agattatggg	ttcccaggaa	aaattcactc	540
aantntggaa	caccnccatg	aaaagggtc	caatttctgn	tggcttcccc	aactataccg	600
gaattttgaa	agantcncct	tacttccaaa	aaaaaanant	tgcttttnc	cccnttctgt	660
tgcaatgaaa	acntcccaan	acngccaatn	aaaacctgcc	cnnncaaaaa	ggntcncaaa	720
caaaaaaant	nnaagggttn					740

<210> 18
 <211> 802
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(802)

CCDS14634.1:ENSEMBL

[illegible]

ccgctgggttg	cgctgggtcca	gngnagccac	gaagcacgtc	agcatacaca	gcctcaatca	60
caaggtcttc	cagctgccgc	acattacgca	gggcaagagc	ctccagcaac	actgcatatg	120
ggatacactt	tacttttagca	gccagggtga	caactgagag	gtgtcgaagc	ttattcttct	180
gagcctctgt	tagtggagga	agattccggg	cttcagctaa	gtagtcaagc	tatgtcccat	240
aagcaaacac	tgtgagcagc	cggaaagtag	aggcaagtc	actctcagcc	agctctctaa	300
cattgggcat	gtccagcagt	tctccaacaa	cgtagacacn	agggcctcc	agcacctgat	360
ggatgagtgt	ggccagcgct	gcccccttgg	ccgacttggc	taggagcaga	aattgtctct	420
ggttctgccc	tgtcaccttc	acttccgcac	tcatcactgc	actgagtgtg	ggggacttgg	480
gctcaggatg	tccagagacg	tggttccgcc	ccctcnctta	atgacaccgn	ccanncaacc	540
gtcggctccc	gccgantng	ttcgtcgtnc	ctgggtcagg	gtctgtctgc	cnctacttgc	600
aancttcgtc	nggcccatgg	aattcaccnc	accggaactn	gtangatcca	ctnnttctat	660
aaccggncgc	caccgcnntt	ggaactccac	tctntntncc	ttactttag	ggttaaggtc	720
acccttnncc	ttaccttggc	ccaaaccntn	cctgtgtcgc	anatngtnaa	tcnggncnna	780
tnccanccnc	atangaagcc	ng				802

<213> Homo sapien

$\langle 223 \rangle$ n = A, T, C or G

cnaagcttcc	aggtnacggg	ccgcnaance	tgaccnagg	tancanaang	cagnncgcgg	60
gagcccaccg	tcacgnggng	gngtctttat	nggagggggc	ggagccacat	cncctggacnt	120
cntgacccca	actcccncc	ncncantgea	gtgatgagtg	cagaactgaa	ggtnacgtgg	180
caggaacca	gancaaannc	tgctccnntc	caagtgcgcn	nagggggcgg	ggctggccac	240
gcncatccnt	cnaagtctgn	aaagcccn	cctgtctact	tgtttgga	acnngcnnga	300
catgcccagn	gttanataac	nggcngagag	tnantttgcc	tctcccttcc	ggctgcgcgn	360
cgngtntgct	tagnggacat	aacctgacta	cttaactgaa	ccnngaate	tnccnccct	420
ccactaagct	cagaacaaaa	aacttcgaca	ccactcantt	gtcacctgnc	tgctcaagta	480
aagtgtacc	catnccaat	gtntgctnga	ngctctgnc	tgcnttangt	tcggctcctgg	540
gaagacctat	caattnaagc	tatgtttctg	actgcctctt	gctccctgna	acaancnacc	600
cnnncntcca	agggggggnc	ggcccccaat	ccccccaacc	ntnaattnan	tttancccn	660
ccccnggcc	cggccttta	cnancntcnn	nnacnnggna	aaacnnngc	tttncccaac	720
naatccnec	t					731

<213> Homo sapien

$\langle 223 \rangle$ n = A, T, C or G

<400> 20

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

```
<220>  
<221> misc_feature  
<222> (1)...(755)  
<223> n = A,T,C or G
```

```
<210> 22
<211> 849
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G
```

<400> 22						
tttttttttt	tttttangtg	tngtcgtgca	ggtagaggct	tactacaant	gtgaanacgt	60
acgctnggan	taangcgacc	cganttctag	ganncnccct	aaaatcanac	tgtgaagatn	120
atcctggnna	cggaaanggtc	accggnngat	nnrtgctagg	tgncnctctc	cannncttn	180
caataactcn	ngqccctgcc	caccaccttc	qqcgcqccn	ngncgcggcc	cgggtcattn	240

gnnttaaccn	cactnngcna	ncgggtttccn	nccccnnng	accnnggcga	tccgggggtnc	300
tctgtcttcc	cctgnagncn	anaaantggg	ccnccggnccc	ctttaccct	nnacaagcca	360
cngccntcta	ncnccngccc	cccctccant	nngggggact	gccnanngt	ccgttntctng	420
nnaccccnnn	gggtncctcg	gttgctcgant	cnaccgnang	ccanggattc	cnaaggaagg	480
tgcgttnttg	gcccttacc	ttcgctncgg	nncacccttc	ccgacnanga	nccgctccc	540
cncnccgng	cctcncctcg	caacaccgc	nctcctcngt	ncggnnnccc	ccccaccgc	600
ncctcncnc	ngnccnanc	ctccnccnc	gtctcannca	ccaccccgcc	ccgccaaggcc	660
ntcanccacn	ggnggacnng	nagcncntc	gcncgcgcgn	gcgnccct	cgccnngaa	720
ctnctcngg	ccantnncgc	tcaancnna	cnaaacgcgc	ctgcgcggcc	cgnagcgncc	780
ncctcncga	gtcctcccg	cttcnacc	angnntccn	cgaggacacn	nnaccccgcc	840
nncangcgg						849

<210> 23
 <211> 872
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(872)
 <223> n = A,T,C or G

<400> 23						
gcgcaaaacta	tacttcgctc	gnactcgtgc	gcctcgtcnc	tcttttcctc	cgcaaccatg	60
tctgacnanc	ccgattnggc	ngatatchan	aagntcganc	agtccaaact	gantaacaca	120
cacacnncan	aganaaatcc	nctgccttcc	anagtanacn	attgaacnng	agaaccangc	180
nggcgaatcg	taatnaggcg	tgcgcgcgcca	atntgtcncc	gtttattntn	ccagcntcnc	240
ctnccnacc	tacntcttcn	nagctgtcnn	accctngtn	cgnaccccc	naggtcggga	300
tccgggtttnn	nntgaccgng	cnnccctcc	ccccctccat	nacganccnc	ccgcaccacc	360
nanngcncgc	nccccgnnct	cttcgcncnc	ctgtcctntn	cccctgtngc	ctggcncngn	420
accgcattga	cctcgcenn	ctncnngaaa	ncgnanacgt	ccgggttggn	annancgctg	480
tgggnnngcg	tctgcncgc	gttccttcn	nenncttcca	ccatcttcnt	tacnggggtct	540
ccnccgctc	tcnnncaenc	cctgggacgc	tntcctntgc	cccccttnac	tccccccctt	600
cgnccgtgnc	cgnccccacc	ntcatttnca	nacgntcttc	acaannncc	ggntnnctcc	660
cnancngnc	gtcancnag	ggaagggngg	ggnnccntg	nttgacgttg	ngngngangtc	720
cgaanantcc	tcnccntcan	cncctaccct	cgggcgnnct	ctcngttnc	aacttancaa	780
ntctcccccg	ngngcnctc	tcagcctcnc	ccnccccnct	ctctgcantg	tncctctgctc	840
tnaccnntac	gantnttcgn	cncctcttt	cc			872

<210> 24
 <211> 815
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 24						
gcatgcaagc	ttgagtattc	tatagngtca	cctaaatanc	ttggcntaat	catgggtcnta	60
nctgncttcc	tgtgtcaaat	gtatacnaa	tanatatgaa	tctnatntga	caaganngta	120
tctnccatta	gtaacaantg	tnntgtccat	cctgtcngan	canattccca	tnnattncgn	180
cgcattcncn	gncantatn	taatngggaa	ntcnntnnn	ncaccnncat	ctatcctncc	240


```

gcncctgac  tggnaagat  ggatnanttc  tnntntgacc  nacatgttca  tcttgattn  300
aanancccc  cgcngnccac  cggttngng  cnagccntc  ccaagacctc  ctgtggaggt  360
aacctgcgtc  aganncatca  aacntgggaa  acccgcnnc  angtnnaagt  ngnnncanan  420
gateccgtcc  aggnttnacc  atcccttcnc  agcgccccct  ttngtgcctt  anagnnagc  480
gtgtccnanc  cncctcaacat  ganacgcgcc  agnccanccg  caattnggca  caatgtcgnc  540
gaacccccct  gggggantna  tncaaanccc  caggattgtc  cncncangaa  atcccnanc  600
ccnccctac  ccncttttg  gacngtgacc  aantcccga  gtnccagtcc  ggcnngnctc  660
ccccaccgt  nncntgggg  ggtgaanct  cngnntcanc  cngncgaggn  ntcgnaagga  720
accgncctn  ggncgaanng  ancntcnga  agngccnct  cgtataaccc  cccctcncca  780
nccnacngnt  agntcccccc  cngggtncgg  aang

```

```

<210> 25
<211> 775
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

```

```

<400> 25
ccgagatgtc  tcgctccgtg  gccttagctg  tgctcgcgt  actctctctt  tctggcctgg  60
aggctatcca  gcgtactcca  aagattcagg  ttactcagc  tcatccagca  gagaatggaa  120
agtcaaattt  cctgaattgc  tatgtgtctg  ggttccatc  atccgacatt  gaanttact  180
tactgaagaa  tgganagaga  attgaaaaag  tggagcatc  agacttgtct  ttcagcaagg  240
actggtcttt  ctatctctng  tactacactg  aattcacccc  cactgaaaaa  gatgagtatg  300
cctgccgtgt  gaaccatgtg  actttgtcac  agcccaagat  agttaagtgg  gatcgagaca  360
tgtaagcagn  cncatggaa  gttgaagat  gccgatttg  gattggatga  attccaaatt  420
ctgcttgctt  gcnttttaat  antgatatgc  ntatacacc  taccctttat  gncccaaat  480
tgtagggtt  acatnantgt  tcnctngga  catgatctt  ctttataant  ccnccnttcg  540
aattgcccgt  cncnngttn  ngaatgttt  cnaaccacg  gttggctccc  ccaggtcncc  600
tcttacggaa  gggcctggg  cnccttncaa  ggttggggg  accnaaaatt  tcncttntgc  660
ccncccncca  cnctcttng  nncncanttt  ggaaccctt  cnattcccct  tggcctcnna  720
nccttnncta  anaaaacttn  aaancgtngc  naaantttt  acttcccccc  ttacc  775

```

```

<210> 26
<211> 820
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

```

```

<400> 26
anattantac  agtgtaatct  tttcccagag  gtgtgtanag  ggaacggggc  ctgagggcat  60
ccanagata  ncttatanca  acagtgcctt  gaccaagagc  tgctgggcac  atttcctgca  120
gaaaagggtg  cggtcccat  cactcctcct  ctcccatagc  catcccagag  gggtagtag  180
ccatcangcc  ttcgggtggg  gggagtcang  gaaacaacan  accacagagc  anacagacca  240
ntgatgacca  tgggcgggag  cgagcctctt  ccctgnaccg  gggtaggcana  nganagccta  300
nctgaggggt  cacactataa  acgttaacga  ccnagatnan  cacctgcttc  aagtgcaccc  360
ttcctacctg  acnaccagn  accnnnaact  gcngcctggg  gacagcnctg  ggancagcta  420

```


acnnagcact	cacctgcccc	cccatggccg	tncgntccc	tggtcctgnc	aaggggaagct	480
ccctgttgga	attncgggga	naccaaggga	nccccctcct	ccanctgtga	aggaaaaann	540
gatggaattt	tncccttccg	gcnntccccc	tcttcttta	cacgccccct	nttactcttc	600
tccctctntt	ntcctgncnc	acttttnacc	ccnnnathtt	ccttnattga	tcggannctn	660
ganattccac	tnncgcctnc	cntcnatcng	naanacnaaa	nactntctna	cccnggggat	720
gggnncctcg	ntcatcctct	ctttttcnct	accnccnntt	ctttgcctct	ccttngatca	780
tccaacntc	gntggccntn	ccccccennn	tcctttnccc			820

<210> 27
 <211> 818
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(818)
 <223> n = A,T,C or G

<400> 27						
tctgggtgat	ggcctcttcc	tcctcagggga	cctctgactg	ctctggggcca	aagaatctct	60
tgtttcttct	ccgagcccca	ggcagcgggtg	attcagccct	gccaacctg	attctgatga	120
ctgcggatgc	tgtgacggac	ccaaggggga	aatagggtcc	cagggtccag	ggagggggcgc	180
ctgctgagca	cttcgcgccc	tcacctgcc	cagccctgc	catgagctct	gggctgggtc	240
tccgcctcca	gggtttctgct	cttccangca	ngccancaag	tggegtctggg	ccacactggc	300
ttcttctctg	ccntccctg	gctctganc	tctgtcttcc	tgctctgtgc	angcnccttg	360
gatctcagtt	tcctctnctc	anngaactct	gtttctgann	tcttcantta	actntgantt	420
tatnacnanc	tggnctgtnc	tgtcnnaact	taatgggccc	gaccggctaa	tccttccctc	480
netcccttcc	anttcnnnna	accngcttnc	cntctctctc	ccntancccg	ccnggggaanc	540
ctcctttgcc	ctnaccangg	gcnnnnaccg	ccctnnctn	ggggggcnnng	gtnnctnenc	600
ctgntnnccc	cntctcnctt	tnccctgctc	cnnccnccgc	nngcannttc	ncngtcccn	660
tnnctcttcn	ngntctgnaa	ngntcnctn	tnnnnnngcn	ngntnntn	tcctctctnc	720
cnnntgnang	tnnttnnnnc	ncngnncccc	nnnnnnnnnn	nggnntnnnn	tctnccnccg	780
ccnnccccc	ngnattaagg	cctccnntct	ccggccnc			818

<210> 28
 <211> 731
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(731)
 <223> n = A,T,C or G

<400> 28						
aggaaggcg	gagggatatt	gtangggatt	gagggatagg	agnataangg	gggaggtgtg	60
tccaacatg	anggtgnngt	tctcttttga	angagggttg	ngtttttann	ccnggtgggt	120
gattnaacc	cattgtatgg	agnnaaagg	tttnagggat	tttctggctc	ttatcagtat	180
ntanatctct	gtnaatcgga	aaatnatntt	tcnncnggaa	aatnttgctc	ccatccgnaa	240
attnctcccg	ggtagtgc	nttnggggg	cngccangtt	tcccaggtct	ctanaatcgt	300
actaaagntt	naagtgggan	tncaaataaa	aacctnncc	agagnatccn	taccgcactg	360
tnnnttncct	tcgcctntg	actctgcnn	agcccaatac	ccnngngnat	gtcncnccng	420
nnngcgcnc	tgaaannnnc	tcngggctnn	gancatcang	gggtttcgca	tcaaaagcnn	480
cgtttctcat	naaggcactt	tngcctcatc	caaccnctng	ccctcnncca	tttngccgtc	540


```
<210> 29
<211> 822
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(822)
<223> n = A,T,C or G
```

```
<210> 30
<211> 787
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G
```

<400> 30						
cgccgcgctg	ctctggcaca	tgcctcctga	atggcatcaa	aagtgatgga	ctgcccattg	60
ctagagaaga	ccttctctcc	tactgtcatt	atggagccct	gcagactgag	ggctcccctt	120
gtctgcagga	tttgatgtct	gaagtcgtgg	agtggtgctt	ggagctcctc	atctacatna	180
gctggaagcc	ctggagggcc	tctctgcgca	gcttcccctt	tcttccacg	ctctccangg	240
acaccagggg	ctcaggcgag	cccatatttc	ccagnagac	atgggtgtt	tccacgcgga	300
cccatggggc	ctgnaaggcc	agggtctcct	ttgacaccat	ctctcccgtc	ctgcctggca	360
ggcctgggga	tccactantt	ctanaacggn	cgccaccncg	gtgggagctc	cagcttttgt	420
tcccnttaat	gaaggttaat	tgcncgcctg	gcgtaatcat	nggtcanaac	tntttcctgt	480
gtgaaattgt	ttntcccctc	ncnattccnc	ncnacatacn	aaccgggaan	cataaagtgt	540
taaagcctcg	gggtngcctn	nngaattnaac	tnaactcaat	taattgcgtt	ggctcatggc	600
ccgctttccn	tctnggaaaa	ctgtcntccc	ctgcnttntt	gaatcgggca	ccccccnggg	660
aaaagcqggt	tqcnttttng	gggnttcctt	ccncttcccc	cctcncntaan	ccctncgctt	720

cggtcgttnc nggtngcggg gaanggggnat nnnctcccnc naagggggng agnnngntat 780
ccccaaa 787

<210> 31
<211> 799
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G

<400> 31

tttttttttt	tttttttggc	gatgctactg	ttaaattgca	ggaggtgggg	gtgtgtgtac	60
catgtaccag	ggctattaga	agcaagaagg	aaggagggag	ggcagagcgc	cctgctgagc	120
aacaaaggac	tcctgcagcc	ttctctgtct	gtctcttggc	gcaggcacat	ggggaggcct	180
cccgagggt	gggggccacc	agtccagggg	tgggagcact	acanggggtg	ggagtgggtg	240
gtggctggtg	cnaatggcct	gncacanatc	cctacgattc	ttgacacctg	gatttcacca	300
ggggaccttc	tgttctccca	nggnaacttc	ntnnatctcn	aaagaacaca	actgtttctt	360
cngcanttct	ggctgttcat	ggaaagcaca	ggtgtccnat	ttnggctggg	acttgggtaca	420
tatggttccg	gcccacctct	cccntcnaaa	aagtaattca	ccccccccc	ccntctnttg	480
cctgggccct	taantaccca	caccggaact	canttantta	ttcatcttng	gntgggcttg	540
ntnatcnccn	cctgaangcg	ccaagttgaa	aggccacgcc	gtncnccnctc	cccatagnan	600
nttttnnct	canctaagtc	ccccccnggc	aacnatccaa	tccccccccc	tggggggcccc	660
ageccanggc	ccccgncctc	ggnnncengn	cncgnantcc	ccaggntctc	ccantcngnc	720
ccnnngcncc	cccgacgcga	gaacanaagg	ntngagccnc	cgcannnnnn	nggtnnncnac	780
ctgccccccc	ccnnecgnng					799

<210> 32
<211> 789
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 32

tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tttttncnag	ggcagggttta	ttgacaacct	cncgggacac	aancaggctg	gggacaggac	120
ggcaacaggc	tccggcgggc	gcggcgggcg	ccctacctgc	ggtaccaa	ntgcagcctc	180
cgctcccgt	tgatnttcct	ctgcagctgc	aggatgccnt	aaaacagggc	ctcggccntn	240
ggtgggcacc	ctgggatttn	aatttccacg	ggcacaatgc	ggtcgcancc	cctcaccacc	300
nattaggaat	agtggtnnta	cccncncccg	ttggencact	ccccntggaa	accacttntc	360
gcggctccgg	catctggtct	taaaccttgc	aaacnctggg	gccctctttt	tggttantnt	420
ncnngccaca	atcatnactc	agactggcnc	gggctggccc	caaaaaancn	ccccaaaacc	480
ggncatgtc	ttnnccgggt	tgctgcnatn	tncatcacct	cccgggcncn	ncaggncaac	540
ccaaaagtgc	ttngggcccn	caaaaaanct	ccggggggnc	ccagtttcaa	caaagtcatc	600
ccccttggcc	cccaaatect	ccccccgntt	nctgggtttg	ggaaccacag	cctctnnctt	660
tggngggcaa	gntggntccc	ccttcggggc	cccgggtggc	ccnnctctaa	ngaaaacncc	720
ntcctnnnca	ccatcccccc	nngnnacgnc	tancaangna	tccctttttt	tanaaacggg	780
ccccccnccg						789

<210> 33
 <211> 793
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(793)
 <223> n = A,T,C or G

<400> 33

gacagaacat	ggttgatggt	ggagcacctt	tctatacgac	ttacaggaca	gcagatgggg	60
aattcatggc	tggttgagca	atanaacccc	agttctacga	gctgctgac	aaaggacttg	120
gactaaagtc	tgatgaactt	cccaatcaga	tgagcatgga	tgattggcca	gaaatgaana	180
agaagtttgc	agatgtattt	gcaaagaaga	cgaaggcaga	gtggtgtcaa	atctttgacg	240
gcacagatgc	ctgtgtgact	ccggttctga	cttttgagga	ggttgttcat	catgatcaca	300
acaangaacg	gggctcgttt	atcaccantg	aggagcagga	cgtgagcccc	cgccctgcac	360
ctctgctggt	aaacaccca	gccatccctt	ctttcaaaag	ggatccacta	cttctagagc	420
ggncgccacc	gcggtggagc	tccagctttt	gttcccttta	gtgagggtta	attgcgcgct	480
tggcgtaatc	atggtcatan	ctgtttcctg	tgtgaaattg	ttatccgctc	acaattccac	540
acaacatacg	anccggaagc	atnaaatttt	aaagcctggn	ggtngcctaa	tgantgaact	600
nactcacatt	aattggcttt	gcgctcactg	cccgttttcc	agtcgggaaa	acctgtcctt	660
gccagctgcc	nttaatgaat	cnggccaccc	cccggggaaa	aggcngtttg	cttnttgggg	720
cgcncctccc	gctttctcgc	ttcctgaant	ccttcccccc	ggtctttcgg	cttgccggcna	780
acggtatcna	cct					793

<210> 34
 <211> 756
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(756)
 <223> n = A,T,C or G

<400> 34

gccgcgaccg	gcatgtacga	gcaactcaag	ggcgagtgga	accgtaaaag	ccccaatctt	60
ancaagtgcg	gggaanagct	gggtcgactc	aagctagttc	ttctggagct	caacttcttg	120
ccaaccacag	ggaccaagct	gaccaaacag	cagctaattc	tggcccgtga	catactggag	180
atcggggccc	aatggagcat	cctacgcaan	gacatccctt	ccttcgagcg	ctacatggcc	240
cagctcaaat	gctactactt	tgattacaan	gagcagctcc	ccgagtcagc	ctatatgcac	300
cagctcttgg	gcctcaacct	cctcttctctg	ctgtcccaga	accgggtggc	tgantnccac	360
acgganttgg	ancggctgcc	tgcccaanga	catacanacc	aatgtctaca	tcnaccacca	420
gtgtcctgga	gcaatactga	tgganggcag	ctaccncaa	gtnttctctg	ccnagggtaa	480
catccccgcg	cgagagctac	accttcttca	ttgacatcct	gctcgacact	atcagggatg	540
aaaatcgcn	ggttgctcca	gaaaggctnc	aanaanatcc	ttttcncctg	aggcccccg	600
atncnctagt	nctagaatcg	gcccgcacac	gcggtgganc	ctccaacctt	tcgttnccct	660
ttactgaggg	ttnattgccg	cccttggcgt	tatcatggtc	acncngttn	cctgtgttga	720
aattnttaac	ccccacaaat	tccacgcena	cattng			756

<210> 35
 <211> 834

<212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(834)
 <223> n = A,T,C or G

<400> 35

ggggatctct	anatchacct	gnatgcatgg	ttgtcgggtgt	ggtcgctgtc	gatgaanatg	60
aacaggatct	tgcccttgaa	gctctcggct	gctgtnttta	agttgctcag	tctgccgtca	120
tagtcagaca	cncctctggg	caaaaaacan	caggatntga	gtcttgattt	cacctccaat	180
aatcttcngg	gctgtctgct	cggtgaactc	gatgacnang	ggcagctggt	tgtgtntgat	240
aaantccanc	angttctcct	tggtagacct	cccttcaaag	ttgttccggc	cttcatcaaa	300
cttctnnaan	angannancc	cancctttgtc	gagctggnat	ttgganaaca	cgtcactggt	360
ggaaactgat	cccaaattgt	atgtcatcca	tcgcctctgc	tgccctgcaa	aaacttgctt	420
ggcncaaadc	cgactccccc	tccttgaaaag	aagccnatca	cacccccctc	cctggactcc	480
nncaangact	ctnccgctnc	cccntccnng	cagggttggg	ggcannccgg	gcccntgcgc	540
ttcttcagcc	agttcacnat	nttcatcagc	ccctctgcca	gctgtnttat	tccttggggg	600
ggaanccgtc	tctcccttcc	tgaannaact	ttgaccgtng	gaatagccgc	gentcnccnt	660
acntnctggg	ccgggttcaa	antccctccn	ttgncnntcn	cctcggggcca	ttctggattt	720
nccnaacttt	ttccttcccc	cnccccncgg	ngtttggnnt	tttcatnggg	ccccaaactc	780
gctnttgggc	antcccttgg	gggcntntan	cnccccctnt	ggccccntng	ggcc	834

<210> 36
 <211> 814
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(814)
 <223> n = A,T,C or G

<400> 36

cggncgcttt	ccngccgcgc	cccgtttcca	tgacnaagge	tcctttcang	ttaaatacnn	60
cctagnaaac	attaatgggt	tgtctacta	atacatcata	cnaaccagta	agcctgcca	120
naacgccaac	tcaggccatt	cctaccaaag	gaagaaaggc	tggtctctcc	acccccgtga	180
ggaaaggcct	gccttgtaag	acaccacaat	ncggctgaat	ctnaagtctt	gtgttttact	240
aatggaaaaa	aaaaataaac	aanaggtttt	gttctcatgg	ctgcccaccg	cagcctggca	300
ctaaaacanc	ccagcgtcca	cttctgcttg	ganaaatatt	ctttgctctt	ttggacatca	360
ggcttgatgg	tatcactgcc	acntttccac	ccagctgggc	ncccttcccc	catntttgtc	420
antganctgg	aaggcctgaa	ncttagtctc	caaaagtctc	ngcccacaag	accggccacc	480
aggggangtc	ntttncagtg	gatctgccaa	anantaccn	tatcatcnnt	gaataaaaag	540
gcccctgaac	ganatgcttc	cancancctt	taagacccat	aatcctngaa	ccatgggtgcc	600
cttcgggtct	gatecnaaag	gaatgttcc	gggtcccant	ccctcctttg	ttnccttacgt	660
tgtnttggtg	ccntgctngn	atnaccnaan	tganatcccc	ngaagcacc	tnccctgggc	720
atttganttt	cntaaattct	ctgcctacn	nctgaaagca	cnattccctn	ggcnccnaan	780
gngaaactca	agaaggtctn	ngaaaaacca	cncn			814

<210> 37
 <211> 760
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(760)
 <223> n = A,T,C or G

<400> 37
 gcatgctgct cttcctcaaa gttgttcttg ttgccataac aaccaccata ggtaaagcgg 60
 gcgcagtgtt cgctgaagg gttgtagtac cagcgcggga tgctctcctt gcagagtcct 120
 gtgtctggca ggccacgca atgccctttg tcaactggga aatggatgcg ctggagctcg 180
 tcnaanccac tcgtgtatth ttacangca gcctcctccg aagcctccgg gcagttgggg 240
 gtgtcgtcac actccactaa actgtcgatn cancagccca ttgctgcagc ggaactgggt 300
 gggtgacag gtgccagaac aactggatn ggctttcca tggaggggcc tgggggaaat 360
 cncctnancc caaactgcct ctcaaaggcc acctgcaca ccccgacagg ctagaaatgc 420
 actcttcttc ccaaaggtag ttgttcttgt tgcccaagca ncctccanca aaccaaaanc 480
 ttgcaaaatc tgctccgttg gggtcatnnn taccanggtt ggggaaanaa acccggcngn 540
 gancncctt gtttgaatgc naaggnaata atctcctgt ctgtcttggg tgganagca 600
 caattgaact gttaacnttg ggccnggttc cncctnggtg gtctgaaact aatcaccgtc 660
 actggaaaaa ggtangtgcc ttccttgaat tcccaaantt ccctngntt tgggtnttt 720
 ctctctncc ctaaaaatcg tntcccccc ccntanggcg 760

<210> 38
 <211> 724
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(724)
 <223> n = A,T,C or G

<400> 38
 tttttttttt tttttttttt tttttttttt tttttaaaaa cccctccat tgaatgaaaa 60
 ctccnaaat tgtccaaccc ctcnnccaa atnnccattt ccgggggggg gttccaaacc 120
 caaattaatt ttgganttta aattaaatnt tnatnngggg aanaanccaa atgtnaagaa 180
 aatttaaccc attatnaact taaatnccn gaaaccntg gnttccaaaa atttttaacc 240
 cttaaattccc tccgaaattg ntaanggaaa accaaattcn cctaaggctn tttgaagggt 300
 ngatttaaac ccccttnant tnttttnacc cngnctnaa ntattngnt tccggtgttt 360
 tcctnttaan cntnggtaac tcccgntaat gaannnccct aanccaatta aaccgaattt 420
 tttttgaatt ggaaattccn ngggaattna ccgggggttt tccnttttg gggcatncc 480
 cccnctttcg gggtttgggn ntaggttgaa ttttnnang nccccaaaaa ncccccaana 540
 aaaaaactcc caagnnttaa ttngaantnc ccccttccca ggcttttttg gaaaggnggg 600
 tttntggggg ccngggantt cnttccccn ttncncccc ccccccnggt aaanggttat 660
 ngnttttggg ttttgggcc cttnanggac cttccggatn gaaattaaat ccccggnccg 720
 gccg 724

<210> 39
 <211> 751
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(751)

<223> n = A,T,C or G

<400> 39

tttttttttt	tttttctttg	ctcacattta	atthttatth	tgattttttt	taatgctgca	60
caacacaata	tttatttcat	ttgtttcttt	tatttcattt	tatttgtttg	ctgctgctgt	120
tttatttatt	tttactgaaa	gtgagaggga	acttttgagg	ccttttttcc	tttttctgta	180
ggcgcgctta	agcttttctaa	atthtggaaca	tctaagcaag	ctgaanggaa	aaggggggtt	240
cgcaaaatca	ctcgggggaa	nggaaagggt	gctttgttaa	tcatgcccta	tggtgggtga	300
ttaactgctt	gtacaattac	ntttcacttt	taattaattg	tgctnaangc	tttaattana	360
cttgggggtt	ccctccccc	accaaccccn	ctgacaaaaa	gtgccngccc	tcaaatnatg	420
tcccgcnnt	cnttgaaaaca	cacngcngaa	ngttctcatt	ntcccnncnc	caggtnaaaa	480
tgaagggtta	ccatntttaa	cncacacctc	acntggcnnn	gctgaatcc	tcnaaaancn	540
ccctcaancn	aatttctnng	ccccggctnc	gcntnngtcc	cncgggggt	ccgggaantn	600
cacccccnga	anncnntnnc	naacnaaatt	ccgaaaatat	tcccnntcnc	tcaattcccc	660
cnnagactnt	cctcnncnan	cncaattttc	tttntntcac	gaacncgnnc	cnnaaaatgn	720
nnnnncctc	cnctngtccn	naatcnccan	c			751

<210> 40

<211> 753

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(753)

<223> n = A,T,C or G

<400> 40

gtgggtatttt	ctgtaagatc	agggtgttct	ccctcgtagg	tttagaggaa	acaccctcat	60
agatgaaaac	ccccccgaga	cagcagcact	gcaactgcca	agcagccggg	gtaggagggg	120
cgccctatgc	acagctgggc	ccttgagaca	gcagggttcc	gatgtcaggc	togatgtcaa	180
tggtctggaa	gcggcggtcg	tacctgcgta	ggggcacacc	gtcagggcc	accaggaact	240
tctcaaagtt	ccaggcaacn	tcgttcgcac	acaccggaga	ccagggtgatn	agcttgggggt	300
cggtcataan	cgcggtggcg	tcgttcgctg	gagctggcag	ggcctccgc	aggaaggcna	360
ataaaaagtg	cgcgcccgca	ccgttcant	cgcacttctc	naanaccatg	angttgggct	420
cnaaccacc	accannccgg	acttccttga	nggaattccc	aaatctcttc	gntcttgggc	480
ttctnctgat	gccctantg	gttgccnngn	atgccaanca	nccccaancc	ccgggggtcct	540
aaanaccn	cctcctcntt	tcctctgggt	tntntcccc	ggaccntgg	tcctctcaag	600
ggancccata	tctcnaccan	tactcacnt	cccccccnt	gnnaccanc	cttctannng	660
ttcccncccg	ncctctggcc	cntcaaan	gcttncaena	cctgggtctg	ccttcccccc	720
tnccctatct	gnaccnncn	ttgtctcan	tnt			753

<210> 41

<211> 341

<212> DNA

<213> Homo sapien

<400> 41

actatatcca	tcacaacaga	catgcttcat	cccatagact	tcttgacata	gcttcaaagt	60
agtgaaccca	tccttgattt	atatacatat	atgttctcag	tattttggga	gcctttccac	120
ttcttttaac	cttggttcatt	atgaacactg	aaaataggaa	tttgtgaaga	gttaaaaagt	180
tatagcttgt	ttacgtagta	agtttttgaa	gtctacattc	aatccagaca	cttagttgag	240
tgttaaactg	tgatttttaa	aaaatatcat	ttgagaatat	tctttcagag	gtattttcat	300
ttttactttt	tgattaattg	tgttttatat	attagggtag	t		341


```

      <400> 42
acttactgaa tttagtcttg tgctcttctt tatttagtgt tgtatcataa atacctttgat      60
gtttcaaac a ttctaaataa ataattttca gtggcttcat a                               101

```

<400> 43						
acatctttgt	tacagtctaa	gatgtgttct	taaatcacca	ttccttcctg	gtcctcaccc	60
tccagggtgg	tctcacactg	taattagagc	tattgaggag	tctttacagc	aaattaagat	120
tcagatgcct	tgctaagtct	agagttctag	agttatgttt	cagaaagtct	aagaaaccca	180
cctcttgaga	ggtcagtaaa	gaggacttaa	tatttcatat	ctacaaaatg	accacaggat	240
tcgatacaga	acgagagtta	tcctggataa	ctcagagctg	agtacctgcc	cggggggcgc	300
tcgaa						305

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<220>  
<221> misc_feature  
<222> (1)...(852)  
<223> n = A,T,C or G
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<400> 44						
acataaaatat	cagagaaaaag	tagtctttga	aatattttacg	tccaggaggtt	ctttgtttct	60
gattattttgg	tgtgtgtttt	ggtttgtgtc	caaagtattg	gcagcttcag	ttttcatttt	120
ctctccatcc	tcgggcattc	ttcccaaatt	tatataccag	tcttcgtcca	tccacacgct	180
ccagaatttc	tcttttgtag	taatatctca	tagctcggt	gagcttttca	taggtcatgc	240
tgctgttgtt	cttcttttta	ccccatagct	gagccactgc	ctctgatttc	aagaacctga	300
agacgccctc	agatcgggtc	tcccatttta	ttaactctgc	gttctgtctc	gggttcaaga	360
ggatgtcgcg	gatgaattcc	cataagttag	tcctctctgg	gttggtcttt	ttggtgtggc	420
acttggcagg	ggggtcttgc	tcctttttca	tatcaggtga	ctctgcaaca	ggaaggtgac	480
tggtgggtgt	catggagatc	tgagcccggc	agaaagtttt	gctgtccaac	aaatctactg	540
tgctaccata	gttgggtgtc	tataaatagt	tctngtcttt	ccaggtgttc	atgatggaag	600
gctcagtttg	ttcagtcctg	acaatgacat	tgtgtgtgga	ctggaacagg	tcaactactgc	660
actggccggt	ccacttcaga	tgctgcaagt	tgctgtagag	gagntgcccc	gccgtccctg	720
cngcccgagg	gaactcctgc	aaactcatgc	tgcaaagggtg	ctcgccgttg	atgtcgaact	780
cntggaaagg	gatacaattg	gcatccagct	ggttggtgtc	caggaggtga	tggagccact	840
cccacacctg	gt					852

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<210> 45
<211> 234
<212> DNA
<213> Homo sapien
```


<400> 45

acaacagacc	cttgctcgct	aacgacctca	tgctcatcaa	gttggacgaa	tccgtgtccg	60
agtctgacac	catccggagc	atcagcattg	cttcgcagtg	ccctaccgcg	gggaactctt	120
gcctcgtttc	tggtcgggg	ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	180
tgaacgtgtc	ggtggtgtct	gaggaggtct	gcagtaagct	ctatgacccg	ctgt	234

<210> 46

<211> 590

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(590)

<223> n = A,T,C or G

<400> 46

actttttatt	taaatgttta	taaggcagat	ctatgagaat	gatagaaaac	atggtgtgta	60
atttgatagc	aatatatttg	agattacaga	gttttagtaa	ttaccaatta	cacagttaaa	120
aagaagataa	tatatcccaa	gcanatacaa	aatatcta	gaaagatcaa	ggcaggaaaa	180
tgantataac	taattgacaa	tgaaaatca	attttaatgt	gaattgcaca	ttatccttta	240
aaagctttca	aaanaaanaa	ttattgcagt	ctanttaatt	caaacagtgt	taaatggtat	300
caggataaan	aactgaagg	canaaaagaat	taattttcac	ttcatgtaac	ncacccanat	360
ttacaatggc	ttaaattgcan	ggaaaaagca	gtggaagtag	ggaagtantc	aaggtctttc	420
tggtctctaa	tctgccttac	tctttgggtg	tggtcttgat	cctctggaga	cagctgccag	480
ggctcctgtt	atatccacaa	tcccagcagc	aagatgaagg	gatgaaaaag	gacacatgct	540
gccttccttt	gaggagactt	catctcactg	gccaaactc	agtcacatgt		590

<210> 47

<211> 774

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(774)

<223> n = A,T,C or G

<400> 47

acaagggggc	ataatgaagg	agtggggana	gattttaaag	aaggaaaaaa	aacgaggccc	60
tgaacagaat	tttcctgnac	aacggggcct	caaaataatt	ttcttgggga	ggttcaagac	120
gcttcactgc	ttgaaactta	aatggatgtg	ggacanaatt	ttctgtaatg	accctgagg	180
cattacagac	gggactctgg	gaggaaggat	aaacagaaag	gggacaaaag	ctaataccaa	240
aacatcaaag	aaaggaagg	ggcgtcatac	ctccagcct	acacagttct	ccagggtct	300
cctcatccct	ggaggacgac	agtggaggaa	caactgacca	tgtccccagg	ctcctgtgtg	360
ctggctcctg	gtcttcagcc	cccagctctg	gaagcccacc	ctctgtgat	cctgcgtggc	420
ccacactcct	tgaacacaca	tcccagggtt	atattcctgg	acatggctga	acctcctatt	480
cctacttccg	agatgccttg	ctccctgcag	cctgtcaaaa	tcccactcac	cctccaaacc	540
acggcatggg	aagcctttct	gacttgcttg	attactccag	catcttgga	caatccctga	600
ttccccactc	cttagaggca	agataggggtg	gttaagagta	gggctggacc	acttgaggcc	660
aggetgctgg	cttcaaattn	tggctcattt	acgagctatg	ggaccttggg	caagtnatct	720
tcacttctat	gggcntcatt	ttgttctacc	tgcaaaatgg	gggataataa	tagt	774

<210> 48
 <211> 124
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(124)
 <223> n = A,T,C or G

<400> 48
 canaaattga aattttataa aaaggcattt ttctcttata tccataaaat gatataattt 60
 ttgcaantat anaaatgtgt cataaattat aatgttcctt aattacagct caacgcaact 120
 tgggt 124

<210> 49
 <211> 147
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(147)
 <223> n = A,T,C or G

<400> 49
 gccgatgcta ctattttatt gcaggagggtg ggggtgtttt tattattctc tcaacagctt 60
 tgtggctaca ggtgggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt 120
 ttagggcacc catatcccaa gcantgt 147

<210> 50
 <211> 107
 <212> DNA
 <213> Homo sapien

<400> 50
 acattaaatt aataaaagga ctgttgggggt tctgctaaaa cacatggctt gatataattgc 60
 atggtttgag gttaggagga gttaggcata tgttttggga gaggggt 107

<210> 51
 <211> 204
 <212> DNA
 <213> Homo sapien

<400> 51
 gtcctaggaa gtctagggga cacacgactc tgggggtcacg gggccgacac acttgcacgg 60
 cgaggaggaa aggcagagaa gtgacaccgt caggggggaaa tgacagaaag gaaaatcaag 120
 gccttgcaag gtcagaaagg ggactcaggg cttccaccac agccctgccc cacttggccca 180
 cctccctttt gggaccagca atgt 204

<210> 52
 <211> 491
 <212> DNA
 <213> Homo sapien

106230: 135353


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<220>  
<221> misc_feature  
<222> (1)...(491)  
<223> n = A,T,C or G
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acaaagataa	catttatctt	ataacaaaaa	tttgatagtt	ttaaagggtta	gtatttgtgta	60
gggtattttc	caaaagacta	aagagataac	tcaggtaaaa	agttagaaat	gtataaaaaca	120
ccatcagaca	ggtttttaaa	aaacaacata	ttacaaaatt	agacaatcat	ccttaaaaaaa	180
aaaacttctt	gtatcaattt	cttttgttca	aaatgactga	cttaantatt	tttaaattatt	240
tcanaaacac	ttcctcaaaa	attttcaana	tggtagcttt	canatgtncc	ctcagtcacca	300
atgttgctca	gataaataaa	tctcgtgaga	acttaccacc	caccacaagc	tttctggggc	360
atgcaacagt	tgtcttttct	tntcttttct	tttttttttt	ttacaggcgc	agaaactcat	420
caatttttatt	tggtatacaa	agggtctcca	aattatatgt	aaaaataaat	ccaagttaat	480
atcactcttg	t					491

<400> 53

<400> 54

<400> 55

acctggcttg tctcgggtg gttcccgcg cccccaagg tccccagaac ggacactttc 60
gcccctccagt ggatactcga gccaaagtgg t 91

```
<210> 56
<211> 133
<212> DNA
<213> Homo sapien
```

```

      <400> 56
ggcggatgtg cgttggttat atacaaatat gtcattttat gtaagggact tgagtatact      60
tggatttttg gtatctgtgg gttgggggga cgggccagga accaataccc catggatacc      120
aagggacaac tgt                                     133

```

```
<210> 57
<211> 147
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(147)
<223> n = A,T,C or G
```

<400> 57

actctggaga	acctgagccg	ctgctccgcc	tctgggatga	ggtgatgcan	gcngtggcgc	60
gactgggagc	tgagcccttc	cctttgcgcc	tgccctcagag	gattgttgcc	gacntgcana	120
tctcantggg	ctggatncat	gcagggt				147

```
<210> 58
<211> 198
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(198)  
<223> n = A,T,C or G
```

<400> 58						
acagggatat	aggtttnaag	ttattgtnat	tgtaaaaatac	attgaatttt	ctgtatactc	60
tgattacata	cattttacct	ttaaaaaaga	tgtaaatctt	aattttttatg	ccatctatta	120
attaccaat	gagttacctt	gtaaatgaga	agtcataata	gcactgaatt	ttaactagtt	180
tgtacttcta	agtttggt					198

```
<210> 59
<211> 330
<212> DNA
<213> Homo sapien
```

<400> 59						
acaacaaatg	ggttgtagg	aagtcttatc	agcaaaactg	gtgatggcta	ctgaaaagat	60
ccattgaaaa	ttatcattaa	tgattttaaa	tgacaagtta	tcaaaaactc	actcaatttt	120
cacctgtgct	agcttgctaa	agctggagtt	aactctagag	caaatatagt	atcttctgaa	180
tacagtcaat	aaatgacaaa	gccagggcct	acaggtggtt	tccagacttt	ccagaccag	240


```
<210> 60
<211> 175
<212> DNA
<213> Homo sapien
```

```
<210> 61
<211> 154
<212> DNA
<213> Homo sapien
```

```
<210> 62
<211> 30
<212> DNA
<213> Homo sapien
```

```
<210> 63
<211> 89
<212> DNA
<213> Homo sapien
```

```
<210> 64
<211> 97
<212> DNA
<213> Homo sapien
```

```
<210> 65
<211> 377
<212> DNA
<213> Homo sapien
```


<220>
 <221> misc_feature
 <222> (1)...(377)
 <223> n = A,T,C or G

<400> 65

acaacaanaa ntcccttctt taggccactg atggaaacct ggaaccccct tttgatggca	60
gcatggcgctc ctaggccttg acacagcggc tggggtttgg gctntcccaa accgcacacc	120
ccaaccctgg tctaccaca nttctggcta tgggctgtct ctgccactga acatcagggg	180
tcggtcataa natgaaatcc caanggggac agaggtcagt agaggaagct caatgagaaa	240
ggtgctgttt gctcagccag aaaacagctg cctggcattc gccgctgaac tatgaacccg	300
tgggggtgaa ctaccccan gaggaatcat gcctgggcga tgcaanggtg ccaacaggag	360
gggcgggagg agcatgt	377

<210> 66
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 66

acgcctttcc ctccagaattc agggaagaga ctgtcgctg ccttcctccg ttgttgcgctg	60
agaaccogtg tgccccttcc caccatatcc accctcgctc catctttgaa ctcaaacacg	120
aggaactaac tgcacctgg tccctctccc agtcccagc tcacctcca tccctcacct	180
tctccaactc taagggatat caaacactgcc cagcacaggg gccctgaatt tatgtggttt	240
ttatatattt ttttaataaga tgcactttat gtcatttttt aataaagtct gaagaattac	300
tgttt	305

<210> 67
 <211> 385
 <212> DNA
 <213> Homo sapien

<400> 67

actacacaca ctccacttgc ccttgtgaga cactttgtcc cagcacttta ggaatgctga	60
ggtcggaacca gccacatctc atgtgcaaga ttgccagca gacatcaggt ctgagagttc	120
cccttttaaa aaaggggact tgcttaaaaa agaagtctag ccacgattgt gtagagcagc	180
tgtgctgtgc tggagattca cttttgagag agttctctc tgagacctga tcttttagagg	240
ctgggcagtc ttgcacatga gatggggctg gtctgatctc agcactcctt agtctgcttg	300
cctctccag ggccccagcc tggccacacc tgcttacagg gcactctcag atgccatac	360
catagtttct gtgctagtgg accgt	385

<210> 68
 <211> 73
 <212> DNA
 <213> Homo sapien

<400> 68

acttaaccag atatattttt accccagatg gggatattct ttgtaaaaaa tgaaaataaa	60
gttttttttaa tgg	73

<210> 69
 <211> 536
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(536)
 <223> n = A,T,C or G

<400> 69

actagtccag	tgtggtggaa	ttccattgtg	ttgggggctc	tcacctcct	ctcctgcagc	60
tccagctttg	tgctctgcct	ctgaggagac	catggcccag	catctgagta	ccctgctgct	120
cctgctggcc	accctagctg	tgccctggc	ctggagcccc	aaggaggagg	ataggataat	180
cccggtggc	atctataacg	cagacctcaa	tgatgagtgg	gtacagcgtc	cccttcactt	240
cgccatcagc	gagtataaca	aggccaccaa	agatgactac	tacagacgtc	cgctgcgggt	300
actaagagcc	aggcaacaga	ccgttggggg	ggtgaattac	ttcttcgacg	tagaggtggg	360
ccgaaccata	tgtaccaagt	cccagcccaa	cttggaacac	tgtgccttcc	atgaacagcc	420
agaactgcag	aagaaacagt	tgtgctcttt	cgagatctac	gaagttccct	ggggagaaca	480
gaangtcct	gggtgaaatc	caggtgtcaa	gaaatcctan	ggatctgttg	ccaggc	536

<210> 70
 <211> 477
 <212> DNA
 <213> Homo sapien

<400> 70

atgacccta	acaggggcc	tctcagccct	cctaatagac	tccggcctag	ccatgtgatt	60
tcaattccac	tccataacgc	tctcataact	aggcctaact	accaacacac	taaccatata	120
ccaatgatgg	cgcgatgtaa	cacgagaaag	cacataccaa	ggccaccaca	caccacctgt	180
ccaaaaaggc	cttcgatacg	ggataatcct	atttattacc	tcagaagttt	ttttcttcgc	240
agggattttt	ctgagccttt	taccactcca	gcctagcccc	taccccccaa	ctaggagggc	300
actggccccc	aacaggcatc	accccgctaa	atccccctaga	agtcccaactc	ctaaacacat	360
ccgtattact	cgcatcagga	gtatcaatca	cctgagctca	ccatagtcta	atagaaaaca	420
accgaaacca	aattattcaa	agcactgctt	attacaattt	tactgggtct	ctattttt	477

<210> 71
 <211> 533
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(533)
 <223> n = A,T,C or G

<400> 71

agagctatag	gtacagtgtg	atctcagctt	tgcaaacaca	ttttctacat	agatagtact	60
aggtattaat	agatatgtaa	agaaagaaat	cacaccatta	ataatggtaa	gatttggtta	120
tgtgatttta	gtggtatttt	tggcaccctt	atatatgttt	tccaaacttt	cagcagtgat	180
attatttcca	taacttaaaa	agtgaagttg	aaaaagaaaa	tctccagcaa	gcatctcatt	240
taaataaagg	tttgtcatct	ttaaaaatac	agcaatatgt	gactttttta	aaaagctgtc	300
aaatagggtg	gaccctaact	ataattatta	gaaatacatt	taaaaacatc	gagtacctca	360
agtcagtttg	ccttgaaaaa	tatcaaatat	aactcttaga	gaaatgtaca	taaaagaatg	420
cttcgtaatt	ttggagtang	aggttccctc	ctcaattttg	tattttttaa	aagtacatgg	480
taaaaaaaaa	aattcacaac	agtatataag	gctgtaaaaa	gaagaattct	gcc	533

<210> 72

<211> 511
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(511)
 <223> n = A,T,C or G

<400> 72

tattacggaa	aaacacacca	cataattcaa	ctancaaaga	anactgcttc	agggcgtgta	60
aaatgaaagg	cttccaggca	gttatctgat	taaagaacac	taaaagaggg	acaaggctaa	120
aagccgcagg	atgtctacac	tatancaggc	gctatttggg	ttggctggag	gagctgtgga	180
aaacatggan	agattggtgc	tgganatcgc	cgtggctatt	cctcattgtt	attacanagt	240
gaggttctct	gtgtgcccac	tggtttgaaa	accgttctnc	aataatgata	gaatagtaca	300
cacatgagaa	ctgaaatggc	ccaaacccag	aaagaaagcc	caactagatc	ctcagaanac	360
gcttctaggg	acaataaccg	atgaagaaaa	gatggcctcc	ttgtgcccc	gtctgttatg	420
atttctctcc	attgcagcna	naaacccgtt	cttctaagca	aacncagggtg	atgatggcna	480
aaatacaccc	cctcttgaag	naccnggagg	a			511

<210> 73
 <211> 499
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(499)
 <223> n = A,T,C or G

<400> 73

cagtgccagc	actggtgcca	gtaccagtac	caataacagt	gccagtgcc	gtgccagcac	60
cagtgggtgg	ttcagtgtg	gtgccagcct	gaccgccact	ctcacatttg	ggctcttcgc	120
tggccttgg	ggagctggtg	ccagcaccag	tggcagctct	gggtgcctgtg	gtttctccta	180
caagtgagat	tttagatatt	gttaatcctg	ccagtctttc	tcttcaagcc	aggggtgcac	240
ctcagaaacc	tactcaacac	agcactctag	gcagccacta	tcaatcaatt	gaagttgaca	300
ctctgcatta	aatctatttg	ccatttctga	aaaaaaaaaa	aaaaaaagg	cgccgcctcg	360
antctagagg	gcccgtttaa	accgcgtgat	cagcctcgac	tgtgccttct	anttgccagc	420
catctgttgt	ttgccctcc	cccgntgcct	tccttgaccc	tggaaagtgc	cactcccact	480
gtcctttcct	aantaaaat					499

<210> 74
 <211> 537
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(537)
 <223> n = A,T,C or G

<400> 74

tttcatagga	gaacacactg	aggagatact	tgaagaattt	ggattcagcc	gcgaagagat	60
ttatcagctt	aatcagata	aatcattga	aagtaataag	gtaaaagcta	gtctctaact	120


```

tccaggccca cggctcaagt gaatttgaat actgcattta cagtgtagag taacacataa      180
cattgtatgc atggaaacat ggaggaacag tattacagtg tcctaccact ctaatcaaga      240
aaagaattac agactctgat tctacagtga tgattgaatt ctaaaaatgg taatcattag      300
ggcttttgat ttataanact ttgggtactt atactaaaatt atggtagtta tactgccttc      360
cagtttgctt gatataattg ttgatattaa gattcctgac ttatattttg aatgggttct      420
actgaaaaan gaatgatata ttcttgaaga catcgatata catttattta cactcttgat      480
tctacaatgt agaaaatgaa ggaatgccc caaattgtat ggtgataaaa gtcccgt       537

```

```

<210> 75
<211> 467
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G

```

```

<400> 75
caaanacaat tgttcaaaaag atgcaaatga tacactactg ctgcagctca caaacacctc      60
tgcataattac acgtacctcc tcctgctcct caagtagtgt ggtctatttt gccatcatca      120
cctgctgtct gcttagaaga acggctttct gctgcaangg agagaaatca taacagacgg      180
tggcacaagg aggccatctt ttctcatcg gttattgtcc ctagaagcgt cttctgagga      240
tctagttggg ctttctttct gggtttgggc catttcantt ctcatgtgtg tactattcta      300
tcattattgt ataacggttt tcaaaccngt gggcacncag agaacctcac tctgtaataa      360
caatgaggaa tagccacggg gatctccagc accaaatctc tccatgttnt tccagagctc      420
ctccagccaa cccaaatagc cgctgctatn gtgtagaaca tccctgn       467

```

```

<210> 76
<211> 400
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

```

```

<400> 76
aagctgacag cattcgggcc gagatgtctc gctccgtggc cttagctgtg ctgcgctac      60
tctctctttc tggcctggag gctatccagc gtactccaaa gattcaggtt tactcacgtc      120
atccagcaga gaatggaaag tcaaatttcc tgaattgcta tgtgtctggg tttcatccat      180
ccgacattga agttgactta ctgaagaatg gagagagaat tgaaaaagtg gagcattcag      240
acttgtcttt cagcaaggac tggcttttct atctcttgta ctacactgaa ttcaccccca      300
ctgaaaaaga tgagtatgcc tgccgtgtga accatgtgac tttgtcacag cccaagatng      360
ttnagtggga tcganacatg taagcagcan catgggaggt       400

```

```

<210> 77
<211> 248
<212> DNA
<213> Homo sapien

```

```

<400> 77
ctggagtgcc ttggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcacct      60

```



```
<210> 78
<211> 201
<212> DNA
<213> Homo sapien
```

```
<210> 79
<211> 552
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(552)
<223> n = A,T,C or G
```

```
<210> 80
<211> 476
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)..(476)
<223> n = A,T,C or G
```

<400> 80							
acagggattt	gagatgctaa	ggccccagag	atcgtttgat	ccaaccctct	tattttcaga		60
ggggaaaatg	gggcctagaa	gttacagagc	atctagctgg	tgcgctggca	cccctggcct		120
cacacagact	cccgagtagc	tgggactaca	ggcacacagt	cactgaagca	ggccctgttt		180
gcaattcacg	ttgccacctc	caacttaaac	attcttcata	tgtgatgtcc	ttagtacta		240
agggttaact	ttcccaccca	gaaaaggcaa	cttagataaa	atcttagagt	actttcatac		300


```

tctttetaagt cctctttccag cctcactttg agtcctcctt ggggggttgat aggaantntc 360
tcttggtctt ctcaataaaa tctctatcca tctcatgttt aatttggtac gcntaaaaat 420
gctgaaaaaa ttaaatgtt ctggtttcnc tttaaaaaaa aaaaaaaaaa aaaaaa 476

```

```

<210> 81
<211> 232
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

```

```

<400> 81
tttttttttg tatgcentcn ctgtgnggtt attgttgctg ccaccctgga ggagcccagt 60
ttcttctgta tctttctttt ctggggggtc ttcttggtc tgccctcca ttcccagcct 120
ctcatcccca tcttgactt ttgctagggt tggaggcgt ttcttggtag cccctcagag 180
actcagtcag cgggaataag tcctaggggt ggggggtgtg gcaagccggc ct 232

```

```

<210> 82
<211> 383
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

```

```

<400> 82
aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc 60
agtaccagta ccaataacat gccagtgccg gtgccagcac cagtgggtggc ttcagtgtctg 120
gtgccagcct gaccgccact ctcacatttg ggctcttcgc tggccttggg ggagctggtg 180
ccagcaccag tggcagctct ggtgcctgtg gtttctccta caagtgagat ttagatatt 240
gttaatcctg ccagtctttc tcttcaagcc aggggtgcac ctcagaaacc tactcaacac 300
agcactctng gcagccacta tcaatcaatt gaagttgaca ctctgcatta aatctatttg 360
ccatttcaaa aaaaaaaaaa aaa 383

```

```

<210> 83
<211> 494
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(494)
<223> n = A,T,C or G

```

```

<400> 83
accgaattgg gaccgctggc ttataagcga tcatgtctc cagtattacc tcaacgagca 60
gggagatcga gtctatacgc tgaagaaatt tgacccgatg ggacaacaga cctgctcagc 120
ccatcctgct cggttctccc cagatgacaa atactctcga caccgaatca ccatcaagaa 180
acgcttcaag gtgctcatga cccagcaacc gcgcctgtc ctctgagggt ccttaaaactg 240

```



```
<210> 84
<211> 380
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(380)  
<223> n = A,T,C or G
```

```
<210> 85
<211> 481
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(481)
<223> n = A,T,C or G
```

```
<210> 86
<211> 472
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(472)
```


<400> 86

<210> 87

$\langle 211 \rangle$ 413

<212> DNA

<213> Homo sapien

$\langle 220 \rangle$

<221> misc feature

$$\langle 222 \rangle \quad (1) \dots (413)$$

<223> n = A, T, C or G

<400> 87

agaaaccagt	atctctnaaa	acaacctctc	ataccttgtg	gacctaattt	tgtgtgcgtg	60
tgtgtgtgcg	cgcataattat	atagacaggc	acatcttttt	tacttttgta	aaagcttatg	120
cctcttttgt	atctatatct	gtgaaagttt	taatgatctg	ccataatgtc	ttggggacct	180
ttgtcttctg	tgtaaatggt	actagagaaa	acacctatnt	tatgagtcaa	tctagttngt	240
tttattcgac	atgaaggaaa	tttccagatn	acaacactna	caaactctcc	cttgactagg	300
ggggacaaaag	aaaagcnaaa	ctgaacatna	gaaacaattn	cctggtgaga	aattncataa	360
acagaaattg	qgtngtatat	tqaaanannq	catcattnaa	acqgtttttt	ttt	413

<210> 88

<211> 448

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (448)$

<223> n = A, T, C or G

<400> 88

cgcagcggggt	cctctctatc	tagctccagc	ctctcgcttg	ccccactccc	cgcgtccgcg	60
gtcctagccn	accatggccg	ggccccctgcg	cgccccgctg	ctcctgctgg	ccatcctggc	120
cgtggccctg	gccgtgagcc	ccgcgggccg	ctccagtcgc	ggcaagccgc	cgcgcctggt	180
gggaggccca	tggaccccgc	gtggaagaag	aagtggtgcg	gcgtgcactg	gactttgccg	240
tcggnanta	caacaaaccc	gcaacnaatt	ttaccnagcn	cgcgctgcag	gttgtgccgc	300
cccaancaa	ttgttactng	gggtaantaa	ttcttggaag	ttgaacctgg	gccaaacnng	360
ttaccagaa	cnagccaat	tngaacaatt	nccctccat	aacagccctc	tttaaaaagg	420
gaancantcc	tqntcttttc	caaatttt				448

<210> 89

<211> 463

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(463)

<223> n = A,T,C or G

<400> 89

gaattttgtg	cactggccac	tgtgatggaa	ccattgggcc	aggatgcttt	gagtttatca	60
gtagtgattc	tgccaaagtt	ggtgttgtaa	catgagtatg	taaaatgtca	aaaaattagc	120
agaggtctag	gtctgcatat	cagcagacag	tttgtccgtg	tattttgtag	ccttgaagtt	180
ctcagtgaca	agttntttct	gatgcgaagt	tctnattcca	gtgttttagt	cctttgcac	240
tttntatgtn	agacttgcc	ctntnaaatt	gcttttgtnt	tctgcaggta	ctatctgtgg	300
tttaacaaaa	tagaannact	tctctgcttn	gaanatttga	atatcttaca	tctnaaaatn	360
aattctctcc	ccatannaaa	acccangccc	ttggganaat	ttgaaaaang	gntccttcnn	420
aattcnnana	anttcagntn	tcatacaaca	naacngganc	ccc		463

<210> 90

<211> 400

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(400)

<223> n = A,T,C or G

<400> 90

agggattgaa	ggtctnttnt	actgtcggac	tgttcancca	ccaactctac	aagttgctgt	60
cttccactca	ctgtctgtaa	gcntnttaac	ccagactgta	tcttcataaa	tagaacaat	120
tcttcaccag	tcacatcttc	taggaccttt	ttggattcag	ttagtataag	ctcttccact	180
tcctttgtta	agacttcac	tggtaaagtc	ttaagttttg	tagaaaggaa	tttaattgct	240
cgttctctaa	caatgtcctc	tccttgaagt	atttggtcga	acaaccacc	tnaagtcct	300
ttgtgcatcc	attttaaata	tacttaatag	ggcattggtn	cactagggta	aattctgcaa	360
gagtcacatg	tctgcaaaag	ttgcgttagt	atatctgcca			400

<210> 91

<211> 480

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(480)

<223> n = A,T,C or G

<400> 91

gagctcggat	ccaataatct	ttgtctgagg	gcagcacaca	tatncagtgc	catggnaact	60
ggtctacccc	acatgggagc	agcatgccgt	agntatataa	ggtcattccc	tgagtcagac	120
atgcctcttt	gactaccgtg	tgccagtgtc	ggtgattctc	acacacctcc	nnccgctctt	180
tgtggaaaaa	ctggcacttg	nctggaaacta	gcaagacatc	acttacaat	tcaccacga	240
gacacttgaa	aggtgtaaca	aagcgactct	tgcattgctt	tttgtccctc	cggcaccagt	300
tgtcaatact	aaccgctgg	tttgctcca	tcacatttgt	gatctgtagc	tctggatata	360
tctcctgaca	gtactgaaga	acttcttctt	ttgtttcaaa	agcaactctt	ggtgcctgtt	420

ngatcagggtt cccatttccc agtccgaatg ttcacatggc atatnttact tcccacaaaa 480

<210> 92
<211> 477
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G

<400> 92
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ggtcccgtcg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcctt 120
cccacgcagg cagcagcggg gccgggtcaat gaactccact cgtggcttgg ggttgacggg 180
taantgcagg aagagggtga ccacctcgcg gtccaccagg atgcccgact gtgcggggacc 240
tgcagcgaaa ctccctcgatg gtcattgagcg ggaagcgaat gangcccagg gccttgccca 300
gaaccttccg cctgtttctct ggcgtcacct gcagctgctg ccgctnacac tcggcctcgg 360
accagcggac aaacggcggt gaacagccgc acctcacgga tgcccantgt gtcgcgctcc 420
aggaacggcn ccagcgtgtc caggtcaatg tcggtgaanc ctccgcgggt aatggcg 477

<210> 93
<211> 377
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(377)
<223> n = A,T,C or G

<400> 93
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agtccgagca gccccagacc gctgccgccc gaagctaagc ctgcctctgg ccttcccctc 120
cgcctcaatg cagaaccant agtgggagca ctgtgtttag agttaagagt gaacactgtn 180
tgattttact tgggaatttc ctctgttata tagcttttcc caatgctaata ttccaaacaa 240
caacaacaaa ataacatgtt tgcctgttna gttgtataaa agtangtgat tctgtatnta 300
aagaaaatat tactgttaca tatactgctt gcaanttctg tattttattg tncctctggaa 360
ataaatatat tattaata 377

<210> 94
<211> 495
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(495)
<223> n = A,T,C or G

<400> 94
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cgagctgang cagatttccc acagtgaccc cagagccctg ggctatagtc tctgaccctt 120


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ccaaggaaag accaccttct ggggacatgg gctggagggc aggacctaga ggcaccaagg 180
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tggaactctng tcccnnaagg gggcagaatc tccaatagan gganngaacc cttgctnana 480
aaaaaaaaana aaaaaa 495

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<210> 95
<211> 472
<212> DNA
<213> Homo sapien .

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<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

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<400> 95
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atcggcacaaa tgtggagtgt atgttctttt cacagtaata tatgcctttt gtaacttcac 360
ttggttattt tattgtaaat gaattacaaa attcttaatt taagaaaatg gtangttata 420
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```

<210> 96
<211> 476
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

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```

<400> 96
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tgtgttagtc tcaattccta ccacactgag ggagcctccc aaatcactat attcttatct 360
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```

```

<210> 97
<211> 479
<212> DNA
<213> Homo sapien

```

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<220>

```


<221> misc_feature
 <222> (1)...(479)
 <223> n = A,T,C or G

<400> 97

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<210> 98
 <211> 461
 <212> DNA
 <213> Homo sapien

<400> 98

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ttaagaaaaa	ctaccacatg	ttgtgtatcc	tggtgccggc	cgtttatgaa	ctgaccaccc	420
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<210> 99
 <211> 171
 <212> DNA
 <213> Homo sapien

<400> 99

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cggtgagaaa	agccttctct	agcgatctga	gaggcgtgcc	ttgggggtac	c	171

<210> 100
 <211> 269
 <212> DNA
 <213> Homo sapien

<400> 100

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cgactgcgac	gacggcgcg	gcgacagtcg	caggtgcagc	gcgggcgcct	gggtcttg	120
aaggctgagc	tgacgccgca	gaggtcgtgt	cacgtccac	gaccttgacg	ccgtcgggga	180
cagccggaac	agagcccggg	gaagcgggag	gcctcgggga	gcccctcggg	aagggcggcc	240
cgagagatac	gcaggtgcag	gtggccgcgc				269

<210> 101
 <211> 405
 <212> DNA

CCCTTTCTA ATGCTGATAT GATCTTGAGT ATAAGAATGC ATATGTCACT AGAATGGATA

<213> Homo sapien

<400> 101

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<210> 102

<211> 470

<212> DNA

<213> Homo sapien

<400> 102

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tcaaaatcta	aattattcaa	attagccaaa	tccttaccaa	ataataccca	aaaatcaaaa	180
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caaagtacaa	ttatcttaac	actgcaaaac	ttttaaggaa	ctaaaataaa	aaaaaacact	300
ccgcaaaggt	taaaggggaa	aacaaattct	tttacaacac	cattataaaa	atcatatctc	360
aaatcttagg	ggaatatata	cttcacacgg	gatcttaact	tttactcact	ttgtttatth	420
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<210> 103

<211> 581

<212> DNA

<213> Homo sapien

<400> 103

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gcttctctag	cctcatthcc	tagctcttat	ctactattag	taagtggctt	tttctctaaa	360
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acgttaataa	aatagcattt	tgtgaagcca	gctcaaaaaga	aggcttagat	cctthttatgt	480
ccatthttagt	cactaaacga	tatcaaagtg	ccagaatgca	aaaggthttgt	gaacatthtat	540
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<210> 104

<211> 578

<212> DNA

<213> Homo sapien

<400> 104

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<210> 105
<211> 538
<212> DNA
<213> Homo sapien
```

```
<210> 106
<211> 473
<212> DNA
<213> Homo sapien
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<210> 107
<211> 1621
<212> DNA
<213> Homo sapien
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<400> 107							
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a

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<210> 108
<211> 382
<212> PRT
<213> Homo sapien

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<400> 108

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Arg Val Asp Arg Pro Gly Ser Arg Tyr Asp Val Ser Arg Leu Gly Arg
35     40     45
Gly Lys Arg Ser Leu Val Leu Asp Leu Lys Gln Pro Arg Gly Ala Ala
50     55     60
Val Leu Arg Arg Leu Cys Lys Arg Ser Asp Val Leu Leu Glu Pro Phe
65     70     75     80
Arg Arg Gly Val Met Glu Lys Leu Gln Leu Gly Pro Glu Ile Leu Gln
85     90     95
Arg Glu Asn Pro Arg Leu Ile Tyr Ala Arg Leu Ser Gly Phe Gly Gln
100    105    110
Ser Gly Ser Phe Cys Arg Leu Ala Gly His Asp Ile Asn Tyr Leu Ala
115    120    125
Leu Ser Gly Val Leu Ser Lys Ile Gly Arg Ser Gly Glu Asn Pro Tyr
130    135    140
Ala Pro Leu Asn Leu Leu Ala Asp Phe Ala Gly Gly Gly Leu Met Cys
145    150    155    160
Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys
165    170    175
Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser
180    185    190
Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg
195    200    205
Gly Gln Asn Met Leu Asp Gly Gly Ala Pro Phe Tyr Thr Thr Tyr Arg
210    215    220
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102500116660


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<210> 109
<211> 1524
<212> DNA
<213> Homo sapien
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$$\begin{array}{ll} \langle 210 \rangle & 110 \\ \langle 211 \rangle & 3410 \end{array}$$

<400> 110

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gcaggaccag aagcacaaaag tgcggtttcc caagcctttg tccatctcag cccccagagt 3120
atatctgtgc ttggggaatc tcacacagaa actcaggagc accccctgcc tgagctaagg 3180
gaggtcttat ctctcagggg gggtttaagt gccgtttgca ataatgtcgt cttattttatt 3240
tagcgggggtg aatattttat actgtaagtg agcaatcaga gtataatggt tatgggtgaca 3300
aaattaaagg ctttcttata tgttttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3360
aaaaaaaaara aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa 3410

```

<210> 111
 <211> 1289
 <212> DNA
 <213> Homo sapien

```

<400> 111
agccaggcgt ccctctgcct gccactcag tggcaacacc cgggagctgt tttgtccttt 60
gtggagcctc agcagttccc tctttcagaa ctactgcca agagccctga acaggagcca 120
ccatgcagtg cttcagcttc attaaagacca tgatgatcct cttcaatttg ctcatccttc 180
tgtgtggtgc agccctggtg gcagtgggca tctgggtgtc aatcgatggg gcatcctttc 240
tgaagatctt cgggccactg tcgtccagtg ccatgcagtt tgtcaacgtg ggctacttcc 300
tcctgcgcagc cggcggttgtg gtctttgtct ttggtttcct gggctgctat ggtgctaaga 360
ctgagagcaa gtgtgccctc gtgacgttct tcttcactct cctcctcctc ttcattgctg 420
aggttgagcgc tgctgtggtc gccttggtgt acaccacaat ggctgagcac ttcctgacgt 480
tgctggtagt gcctgccatc aagaaagatt atggttccca ggaagacttc actcaagtgt 540
ggaacaccac catgaaaggg ctcaagtgtc gtggcttcac caactatacg gattttgagg 600
actcacccta cttcaaagag aacagtgcct ttccccatt ctgttgcaat gacaacgtca 660
ccaacacagc caatgaaacc tgcaccaagc aaaaggctca cgaccaaaaa gtagagggtt 720
gcttcaatca gcttttgtat gacatccgaa ctaatgcagt caccgtgggt ggtgtggcag 780
ctggaattgg gggcctcgag ctggctgcca tgattgtgtc catgtatctg tactgcaatc 840
tacaataagt ccacttctgc ctctgccact actgctgcca catgggaact gtgaagaggc 900
accctggcaa gcagcagtga ttgggggagg ggacaggatc taacaatgtc acttgggcca 960
gaatggacct gccctttctg ctccagactt ggggctagat agggaccact ccttttagcg 1020
atgcctgact ttccttccat tgggtgggtg atgggtgggg ggcatccag agcctctaag 1080
gtagccagtt ctgttgccca ttccccagt ctattaaacc cttgatatgc cccctaggcc 1140
tagtgggtgat cccagtgtc tactggggga tgagagaaag gcattttata gcctgggcat 1200
aagtgaatc agcagagcct ctgggtggat gtgtagaagg cacttcaaaa tgcataaacc 1260
tgttacaatg ttaaaaaaaaa aaaaaaaaaa 1289

```

<210> 112
 <211> 315
 <212> PRT
 <213> Homo sapien

```

<400> 112
Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val Asn Lys Gln
1      5      10      15
Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe
20      25      30
Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala
35      40      45
Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu
50      55      60
Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro
65      70      75      80
Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser

```



```
<210> 113
<211> 553
<212> PRT
<213> Homo sapien
```

<400> 113															
Met	Val	Gln	Arg	Leu	Trp	Val	Ser	Arg	Leu	Leu	Arg	His	Arg	Lys	Ala
1				5					10					15	
Gln	Leu	Leu	Leu	Val	Asn	Leu	Leu	Thr	Phe	Gly	Leu	Glu	Val	Cys	Leu
			20					25					30		
Ala	Ala	Gly	Ile	Thr	Tyr	Val	Pro	Pro	Leu	Leu	Leu	Glu	Val	Gly	Val
		35					40					45			
Glu	Glu	Lys	Phe	Met	Thr	Met	Val	Leu	Gly	Ile	Gly	Pro	Val	Leu	Gly
	50					55					60				
Leu	Val	Cys	Val	Pro	Leu	Leu	Gly	Ser	Ala	Ser	Asp	His	Trp	Arg	Gly
65					70					75					80
Arg	Tyr	Gly	Arg	Arg	Arg	Pro	Phe	Ile	Trp	Ala	Leu	Ser	Leu	Gly	Ile
				85					90					95	
Leu	Leu	Ser	Leu	Phe	Leu	Ile	Pro	Arg	Ala	Gly	Trp	Leu	Ala	Gly	Leu
			100					105					110		
Leu	Cys	Pro	Asp	Pro	Arg	Pro	Leu	Glu	Leu	Ala	Leu	Leu	Ile	Leu	Gly
		115					120					125			
Val	Gly	Leu	Leu	Asp	Phe	Cys	Gly	Gln	Val	Cys	Phe	Thr	Pro	Leu	Glu
	130					135					140				

<210> 114

[illegible]

<400> 115							
gctcttttctc	tcccctcctc	tgaatttaaat	tctttcaact	tgcaatttgc	aaggattaca		60
catttcactg	tgatgtatat	tgtgttgcaa	aaaaaaaaaa	gtgtctttgt	ttaaaattac		120
ttggtttgty	aatccatctt	gctttttccc	cattggaact	agtcattaac	ccatctctga		180
actggtagaa	aaacatctga	agagctagtc	tatcagcatc	tgacaggatga	attggatggg		240
tctcagaacc	atttcaccca	gacagcctgt	tcttatcctg	tttaataaat	tagtttgggg		300
tctctacatg	cataacaaac	cctgctccaa	tctgtcacat	aaaagtctgt	gacttgaagt		360
ttagtc							366

```
<210> 116
<211> 282
```



```
<220>  
<221> misc_feature
```


<222> (1)...(212)
 <223> n = A,T,C or G

<400> 119
 actccggttg gtgtcagcag cacgtggcat tgaacatngc aatgtggagc ccaaaccaca 60
 gaaaatgggg tgaaattggc caactttcta tnaacttatg ttggcaantt tgccaccaac 120
 agtaagctgg cccttctaataaaaagaaaat tgaaagggtt ctcactaanc ggaattaant 180
 aatggantca aganactccc aggcctcagc gt 212

<210> 120
 <211> 90
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(90)
 <223> n = A,T,C or G

<400> 120
 actcgttgca natcaggggc cccccagagt caccgttgca ggagtccttc tggctcttgcc 60
 ctccgccggc gcagaacatg ctgggggtgt 90

<210> 121
 <211> 218
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(218)
 <223> n = A,T,C or G

<400> 121
 tgtancgtga anacgacaga naggggtgtc aaaaatggag aanccttgaa gtcattttga 60
 gaataagatt tgctaaaaga tttggggcta aaacatgggtt attgggagac atttctgaag 120
 atatncangt aaattangga atgaattcat ggttcttttg ggaattcctt tacgatngcc 180
 agcatanact tcatgtgggg atancagcta cccttgta 218

<210> 122
 <211> 171
 <212> DNA
 <213> Homo sapien

<400> 122
 taggggtgta tgcaactgta aggacaaaaa ttgagactca actggcttaa ccaataaagg 60
 catttgtagt ctcatggaac aggaagtcgg atgggtgggc atcttcagtg ctgcatgagt 120
 caccaccccg gcgggggtcat ctgtgccaca ggtccctgtt gacagtgcgg t 171

<210> 123
 <211> 76
 <212> DNA
 <213> Homo sapien

TCGAGTTAGGAG

<213> Homo sapien

<400> 128

```
acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc      60
acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca      120
ttctctctga agtctaggtt acccattttg gggaccatt ataggcaata aacacagttc      180
ccaaagcatt tggacagttt cttgttggtt tttagaatgg ttttcctttt tcttagcctt      240
ttcctgcaaa aggtcactc agtcccttgc ttgctcagtg gactgggctc cccagggcct      300
aggctgcctt cttttccatg tcc                                         323
```

<210> 129

<211> 192

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(192)

<223> n = A,T,C or G

<400> 129

```
acatacatgt gtgtatatatt ttaaatatca cttttgtatc actctgactt tttagcatac      60
tgaaaacaca ctaacataat ttntgtgaac catgatcaga tacaacccaa atcattcatc      120
tagcacattc atctgtgata naaagatagg tgagtttcat ttccttcacg ttggccaatg      180
gataaacaaa gt                                         192
```

<210> 130

<211> 362

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(362)

<223> n = A,T,C or G

<400> 130

```
ccctttttta tggaatgagt agactgtatg tttgaanatt tanccacaac ctctttgaca      60
tataatgacg caacaaaaag gtgctgttta gtcctatggg tcagtttatg cccctgacaa      120
gtttccattg tgttttgccg atcttctggc taatcgtggg atcctccatg ttattagtaa      180
ttctgtattc cattttgtta acgcctggta gatgtaacct gctangaggc taactttata      240
cttattttaa agctcttatt ttgtggtcat taaaatggca atttatgtgc agcactttat      300
tgcagcagga agcacgtgtg gggttggtgt aaagctcttt gctaattctta aaaagtaatg      360
gg                                         362
```

<210> 131

<211> 332

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(332)

<223> n = A,T,C or G


```

<400> 131
ctttttgaaa gatcgtgtcc actcctgtgg acatcttggt ttaatggagt ttcccatgca    60
gtangactgg tatggttgca gctgtccaga taaaaacatt tgaagagctc caaaatgaga    120
gttctcccag gttcgccctg ctgctccaag tctcagcagc agcctctttt aggaggcatc    180
ttctgaacta gattaaggca gcttgtaaat ctgatgtgat ttggtttatt atccaactaa    240
cttccatctg ttatcactgg agaaagccca gactccccan gacnggtacg gattgtgggc    300
atanaaggat tgggtgaagc tggcgttggt gt                                332

```

```

<210> 132
<211> 322
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(322)
<223> n = A,T,C or G

```

```

<400> 132
acttttgcca ttttgtatat ataaacaatc ttgggacatt ctctgaaaa ctaggtgtcc    60
agtggctaag agaactcgat ttcaagcaat tctgaaagga aaaccagcat gacacagaat    120
ctcaaattcc caaacagggg ctctgtggga aaaatgaggg aggacctttg tatctcgggt    180
tttagcaagt taaaatgaan atgacaggaa aggccttatt atcaacaaag agaagagttg    240
ggatgcttct aaaaaaaaact ttggtagaga aaataggaat gctnaatcct agggaagcct    300
gtaacaatct acaattggtc ca                                322

```

```

<210> 133
<211> 278
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

```

```

<400> 133
acaagccttc acaagtttaa ctaaattggg attaatcttt ctgtanttat ctgcataatt    60
cttgtttttc ttcccatctg gctcctgggt tgacaatttg tggaaacaac tctattgcta    120
ctattttaaaa aaaatcacaa atctttccct ttaagctatg ttnaattcaa actattcctg    180
ctattcctgt ttgtcaaag aaattatatt ttcaaaaata tgtntatttg tttgatgggt    240
cccacgaaac actaataaaa accacagaga ccagcctg                                278

```

```

<210> 134
<211> 121
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(121)
<223> n = A,T,C or G

```


<400> 134
 gtttanaaaa cttgttttagc tccatagagg aaagaatggt aaactttgta ttttaaaaca 60
 tgattctctg aggttaaact tggttttcaa atgttatatt tacttgtatt ttgcttttg 120
 t 121

<210> 135
 <211> 350
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(350)
 <223> n = A,T,C or G

<400> 135
 acttanaacc atgcctagca catcagaatc cctcaaagaa catcagtata atcctataacc 60
 atancaagtgt gtgactggtt aagcgtgcga caaaggtcag ctggcacatt acttgtgtgc 120
 aaacttgata cttttgttct aagtaggaac tagtatacag tncctaggan tggtagtcca 180
 ggtgcccc caactcctgc agccgtcct ctgtgccagn ccctgnaagg aactttcgt 240
 ccacctcaat caagccctgg gccatgctac ctgcaattgg ctgaacaaac gtttgctgag 300
 ttcccaagga tgcaaagcct ggtgctcaac tcctggggcg tcaactcagt 350

<210> 136
 <211> 399
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G

<400> 136
 tgtaccgtga agacgacaga agttgcatgg cagggacagg gcagggccga ggccagggtt 60
 gctgtgattg tatccgaata ntctctgtga gaaaagataa tgagatgacg tgagcagcct 120
 gcagacttgt gtctgccttc aanaagccag acaggaaggc cctgcctgcc ttggctctga 180
 cctggcggcc agccagccag ccacaggtgg gcttcttct tttgtggtga caacnccaag 240
 aaaactgcag aggccagggt tcaggtgtna gtgggtangt gaccataaaa caccagggtgc 300
 tcccaggaac ccgggcaaag gccatcccca cctacagcca gcatgcccac tggcgtgatg 360
 ggtgcagang gatgaagcag ccagntgttc tgctgtggt 399

<210> 137
 <211> 165
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(165)
 <223> n = A,T,C or G

<400> 137
 actggtgtgg tngggggtga tgctggtggt anaagttgan gtgacttcan gatggtgtgt 60


```
<210> 138
<211> 338
<212> DNA
<213> Homo sapien
```

<400> 138						
ctgga	atgccacatt	cacaacagaa	tcaagaggtct	gtgaaaacat	taatggctcc	60
ttctc	cagtaagaat	cagggacttg	aaatggaaac	gttaacagcc	acatgcccaa	120
ggcag	tctcccatgc	cttccacagt	gaaagggtct	gagaaaaatc	acatccaatg	180
tgttt	ccagccacac	caaaaggtgc	ttgggggtga	gggctggggg	catanangtt	240
ctgag	gaagcctcaa	gttccattca	gctttgccac	tgtaacattcc	ccatntttta	300
ctgat	gccttttttt	tttttttttg	taaaattc			338

<400> 139						
tcttg	gtttttggca	tctggtttgc	ctatagccga	ggccactttg	acagaacaaa	60
ggact	tcgagtaaga	aggtgattta	cagccagcct	agtgcccgaa	gtgaaggaga	120
aacag	acctcgtcat	tcttggtgtg	agcctggtcg	gtccaccgcc	tatcatctgc	180
cctta	ctcaggtgct	accggactct	ggccctctga	gtctgtagtt	tcacaggatg	240
tttgt	ctttcacacc	ccacagggcc	cctactttct	tcggatgtgt	ttttaataat	300
ctatg	tgccccatcc	tccttcatgc	cctccctccc	tttctacca	ctgctgagtg	360
gaact	tgtttaaagt	gt				382

```
<220>  
<221> misc_feature  
<222> (1)...(200)  
<223> n = A,T,C or G
```

<210>	141
<211>	335
<212>	DNA

<223> n = A, T, C or G


```
<210> 145
<211> 303
<212> DNA
<213> Homo sapien
```

<400> 145							
acgtagacca	tccaactttg	tatttgtaat	ggcaaacatc	cagnagcaat	tcctaaacaa	60	
actggagggt	atttatacc	aattatccca	ttcataaaca	tgccctcctc	ctcaggctat	120	
gcaggacagc	tatcataagt	cggcccaggc	atccagatac	taccatttgt	ataaacttca	180	
gtaggggagt	ccatccaagt	gacagggtcta	atcaaaggag	gaaatggaac	ataagcccag	240	
tagtaaaatn	ttgcttagct	gaaacagcca	caaaagactt	accgccgtgg	tgattaccat	300	
caa						303	

<400> 146						
actgcagctc	aattagaagt	ggtctctgac	tttcatcanc	ttctccctgg	gctccatgac	60
actggcctgg	agtgactcat	tgctctggtt	ggttgagaga	gctcctttgc	caacaggcct	120
ccaagtccagg	gctgggattt	gtttcctttc	cacattctag	caacaatatg	ctggcacttt	180
cctgaacagg	gagggtgga	ggagccagca	tggaacaagc	tgccactttc	taaagtagcc	240
agacttgccc	ctgggcctgt	cacacctact	gatgaccttc	tgtgcctgca	ggaatggaatg	300
taagggtgaq	ctgtgtgact	ctatggt				327

<400> 147
acattgtttt tttagataa agcattgana gagctctcct taacgtgaca caatggaagg 60


```
<210> 148
<211> 477
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G
```

```
<210> 149
<211> 207
<212> DNA
<213> Homo sapien
```

```
<210> 150
<211> 111
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(111)
<223> n = A,T,C or G
```

```
<210> 151
<211> 196
<212> DNA
<213> Homo sapien
```

<400> 151


```

agcgcggcag gtcatttga acattccaga tacctatcat tactcgatgc tgttgataac    60
agcaagatgg ctttgaactc aggggtcacca ccagctattg gaccttacta tgaaaaccat    120
ggataccaac cggaaaaccc ctatcccgca cagcccactg tggccccac  tgtctacgag    180
gtgcatccgg ctcatg                                     196

```

```

<210> 152
<211> 132
<212> DNA
<213> Homo sapien

```

```

<400> 152
acagcacttt cacatgtaag aaggagaaa ttcctaaatg taggagaaag ataacagaac    60
cttccctttt tcatctagtg gtggaaacct gatgctttat gttgacagga atagaaccag    120
gaggagttt gt                                     132

```

```

<210> 153
<211> 285
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

```

```

<400> 153
acaanaccca nganaggcca ctggccgtgg tgtcatggcc tccaaacatg aaagtgtcag    60
cttctgctct tatgtcctca tctgacaact ctttaccatt tttatcctcg ctcagcagga    120
gcacatcaat aaagtccaaa gtcttggaact tggccttggc ttggaggaag tcatcaacac    180
cctggctagt gagggtgcgg cgccgctcct ggatgacggc atctgtgaag tcgtgcacca    240
gtctgcaggc cctgtggaag cgccgtccac acggagtnag gaatt                    285

```

```

<210> 154
<211> 333
<212> DNA
<213> Homo sapien

```

```

<400> 154
accacagtcc tgttggggcca gggcttcatg accctttctg tgaaaagcca tattatcacc    60
accccaaatt tttccttaaa tatctttaac tgaaggggtc agcctcttga ctgcaaagac    120
cctaagccgg ttacacagct aactcccact ggccctgatt tgtgaaattg ctgctgcctg    180
attggcacag gagtccaagg tgttcagctc ccctcctccg tggaacgaga ctctgatttg    240
agtttcacaa attctcgggc cacctcgtea ttgctcctct gaaataaaat ccggagaatg    300
gtcaggcctg tctcatccat atgatcttc cgg                                     333

```

```

<210> 155
<211> 308
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(308)
<223> n = A,T,C or G

```


<400> 155
 actggaaata ataaaaccca catcacagtg ttgtgtcaaa gatcatcagg gcatggatgg 60
 gaaagtgtctt tgggaactgt aaagtgccta acacatgatc gatgattttt gttataatat 120
 ttgaatcacg gtgcatacaa actctcctgc ctgctcctcc tgggccccag cccagcccc 180
 atcacagctc actgctctgt tcatccaggc ccagcatgta gtggctgatt cttcttggt 240
 gcttttagcc tccanaagtt tctctgaagc caaccaaacc tctangtgta aggcattgctg 300
 gccctggt 308

<210> 156
 <211> 295
 <212> DNA
 <213> Homo sapien

<400> 156
 accttgctcg gtgcttggaa catattagga actcaaaata tgagatgata acagtgccta 60
 ttattgatta ctgagagaac tgtagacat ttagttgaag attttctaca caggaactga 120
 gaataggaga ttatgtttgg cctcatatt ctctcctatc ctcttgcct cattctatgt 180
 ctaatatatt ctcaatcaaa taaggtttagc ataatcagga aatcgaccaa ataccaatat 240
 aaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat 295

<210> 157
 <211> 126
 <212> DNA
 <213> Homo sapien

<400> 157
 acaagtttaa atagtgtgt cactgtgcat gtgctgaaat gtgaaatcca ccacatttct 60
 gaagagcaaa acaaattctg tcatgtaatc tctatcttgg gtctgaggga tatctgtccc 120
 cttagt 126

<210> 158
 <211> 442
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(442)
 <223> n = A,T,C or G

<400> 158
 acccactggt cttggaaaca cccatcctta atacgatgat ttttctgtcg tgtgaaaatg 60
 aanccagcag gctgccccta gtcagtcctt ccttcagag aaaaagagat ttgagaaagt 120
 gcctgggtaa ttcaccatta atttcctccc ccaaactctc tgagtcttcc cttaatattt 180
 ctggtggttc tgaccaaagc aggtcatggt ttgttgagca ttgggatcc cagtgaagta 240
 natgtttgta gccttgcata cttagccctt cccacgcaca aacggagtgg cagagtgggtg 300
 ccaaccctgt tttcccagtc cactgagaca gattcacagt gcggaattct ggaagctgga 360
 nacagacggg ctctttgcag agccgggact ctgagangga catgagggcc tctgcctctg 420
 tgttcattct ctgatgtcct gt 442

<210> 159
 <211> 498
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 159

acttccaggt aacgttgttg tttccgttga gcctgaactg atgggtgacg ttgtaggttc	60
tccaacaaga actgaggttg cagagcgggt agggagaggt gctgttccag ttgcacctgg	120
gctgctgttg actgttgttg attcctcact acggcccaag gttgtggaac tggcanaaag	180
gtgtgttgtt gganntgagc tcgggcggct gtggtaggtt gtgggtctt caacaggggc	240
tgctgtggtg ccgggangtg aangtgttgt gtcacttgag cttggccagc tctggaaagt	300
antanattct tctgaaggc cagcgttgt ggagctggca ngggtcantg ttgtgtgtaa	360
cgaaccagtg ctgctgtggg tgggtgtana tcctccacaa agcctgaagt tatggtgtcn	420
tcaggtaana atgtggttc agtgtccctg ggcngctgtg gaaggttgta nattgtcacc	480
aaggaataa gctgtggt	498

<210> 160

<211> 380

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(380)

<223> n = A,T,C or G

<400> 160

acctgcatcc agcttcccctg ccaaactcac aaggagacat caacctctag acagggaaac	60
agcttcagga tacttccagg agacagagcc accagcagca aaacaaatat tcccatgcct	120
ggagcatggc atagaggaag ctganaaatg tggggtctga ggaagccatt tgagtctggc	180
cactagacat ctcatcagcc acttgtgtga agagatgcc catgaccca gatgcctctc	240
ccacccttac ctccatctca cacacttgag ctttccactc tgtataattc taacatcctg	300
gagaaaaatg gcagtttgac cgaacctgtt cacaacggta gaggctgatt tctaacgaaa	360
cttgtagaat gaagcctgga	380

<210> 161

<211> 114

<212> DNA

<213> Homo sapien

<400> 161

actccacatc ccctctgagc aggcggttgt cgttcaaggt gtatttggcc ttgcctgtca	60
cactgtccac tggccctta tccacttggt gcttaatccc tcgaaagagc atgt	114

<210> 162

<211> 177

<212> DNA

<213> Homo sapien

<400> 162

actttctgaa tcgaatcaaa tgatacttag tgtagtttta atatcctcat atatatcaaa	60
gttttactac tctgataatt ttgtaaacca ggtaaccaga acatccagtc atacagcttt	120

<210> 166

<211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 166
 acatcttagt agtgtggcac atcagggggc catcagggtc acagtcactc atagcctcgc 60
 cgaggtcgga gtccacacca ccggtgtagg tgtgctcaat cttgggcttg gcgcccacct 120
 ttggagaagg gatatgctgc acacacatgt ccacaaagcc tgtgaactcg ccaaagaatt 180
 tttgcagacc agcctgagca aggggcggat gttcagcttc agctcctcct tcgtcaggtg 240
 gatgccaacc tcgtctangg tccgtgggaa gctggtgtcc acntcaccta caacctgggc 300
 gangatctta taaagaggct ccnagataaa ctccacgaaa cttctctggg agctgctagt 360
 nggggccttt ttggtgaact ttc 383

<210> 167
 <211> 247
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(247)
 <223> n = A,T,C or G

<400> 167
 acagagccag accttgGCCa taaatgaanc agagattaag actaaacccc aagtcganat 60
 tggagcagaa actggagcaa gaagtgggcc tggggctgaa gtagagacca aggccactgc 120
 tatanccata cacagagcca actctcaggc caaggcnatg gttggggcag anccagagac 180
 tcaatctgan tccaaagtgg tggctggaac actggtcatg acanaggcag tgactctgac 240
 tganctc 247

<210> 168
 <211> 273
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(273)
 <223> n = A,T,C or G

<400> 168
 acttctaagt tttctagaag tggaaggatt gtantcatcc tgaaaatggg tttacttcaa 60
 aatccctcan ccttggtctt cactactgtc tatactgana gtgtcatgtt tccacaaagg 120
 gctgacacct gagcctgnat tttcactcat ccctgagaag ccctttccag taggggtggc 180
 aatcccacac ttccttgcca caagcttccc aggctttctc ccctggaaaa ctccagcttg 240
 agtcccagat acactcatgg gctgccctgg gca 273

<210> 169
 <211> 431

0022907155000

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(431)
<223> n = A,T,C or G

<400> 169
acagccttgg cttcccaaaa ctccacagtc tcagtgcaga aagatcatct tccagcagtc 60
agctcagacc agggtc aaaag gatgtgacat caacagtttc tggtttcaga acaggttcta 120
ctactgtcaa atgaccccc atacttcctc aaaggctgtg gtaagttttg cacaggtgag 180
ggcagcagaa aggggggtant tactgatgga caccatcttc tctgtatact ccacactgac 240
cttgccatgg gcaaaggccc ctaccacaaa aacaatagga tcactgctgg gcaccagctc 300
acgcacatca ctgacaaccg ggatggaaaa agaantgcc aacttcatac atccaactgg 360
aaagtgatct gatactggat tcttaattac cttcaaaagc ttctgggggc catcagctgc 420
tcgaacactg a 431

<210> 170
<211> 266
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

<400> 170
acctgtgggc tgggctgtta tgccctgtgcc ggctgctgaa agggagttca gaggtggagc 60
tcaaggagct ctgcaggcat ttgccaanc ctctccanag canaggagc aacctacact 120
ccccgctaga aagacaccag attggagtcc tgggaggggg agttgggggtg ggcatttgat 180
gtatacttgt cacctgaatg aangagccag agaggaanga gacgaanatg anattggcct 240
tcaaagctag gggctctggca ggtgga 266

<210> 171
<211> 1248
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(1248)
<223> n = A,T,C or G

<400> 171
ggcagccaaa tcataaacgg cgaggactgc agcccgcaact cgcagccctg gcaggcggca 60
ctggctcatgg aaaacgaatt gttctgctcg ggcgtcctgg tgcattccgca gtgggtgctg 120
tcagccgcac actgtttcca gaagtgaagt cagagctcct acaccatcgg gctgggcctg 180
cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta 240
cggcaccacag agtacaacag acccttgctc gctaaccgacc tcattgctcat caagttggac 300
gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgccctacc 360
gcggggaaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc 420
gtgctgcagt gcgtgaacgt gtcggtggtg tctgaggagg tctgcagtaa gctctatgac 480


```

ccgctgtacc accccagcat gttctgcgcc ggcggagggc aagaccagaa ggactcctgc 540
aacggtgact ctggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc 600
ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtct acaccaacct ctgcaaattc 660
actgagtgga tagagaaaac cgtccaggcc agttaactct ggggactggg aacccatgaa 720
attgaccccc aaatacatcc tgcggaagga attcaggaat atctgttccc agccccctct 780
ccctcaggcc caggagtcca ggcccccagc ccctcctccc tcaaaccaag ggtacagatc 840
cccagcccct cctccctcag acccaggagt ccagaccccc cagccccctcc tccctcagac 900
ccaggagtcc agcccctcct ccctcagacc caggagtcca gacccccag cccctcctcc 960
ctcagaccca ggggtccagg cccccaaccc ctccctccctc agactcagag gtccaagccc 1020
ccaaccntc attccccaga cccagaggtc cagggtcccag cccctcntcc ctcagaccca 1080
gcggtccaat gccacctaga ctntccctgt acacagtgcc cccttggtggc acgttgaccc 1140
aaccttacca gttggttttt catttttngt ccctttcccc tagatccaga aataaagttt 1200
aagagaagng caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 1248

```

<210> 172

<211> 159

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(159)

<223> Xaa = Any Amino Acid

<400> 172

```

Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
 1          5          10          15
Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
          20          25          30
Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
          35          40          45
Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
          50          55          60
Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
65          70          75          80
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe
          85          90          95
Cys Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser
          100          105          110
Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe
          115          120          125
Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn
          130          135          140
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
145          150          155

```

<210> 173

<211> 1265

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1265)

[illegible]

ggcagccgc	actcgagcc	ctggcaggcg	gcactggtca	tggaaaacga	attgttctgc	60
tcgggcgtcc	tggtgcatcc	gcagtgggtg	ctgtcagccg	cacactgttt	ccagaactcc	120
tacaccatcg	ggctgggcct	gcacagtctt	gaggccgacc	aagagccagg	gagccagatg	180
gtggaggcca	gcctctccgt	acggcaccca	gagtacaaca	gaccttgct	cgtaacgac	240
ctcatgtcca	tcaagtgtga	cgaatccgtg	tccgagctcg	acaccatccg	gagcatcagc	300
attgctctcg	agtgcctac	cgcggggaac	tcttgctcg	ttcttgctg	gggtctgctg	360
gcgaacggtg	agctcacggy	tgtgtgtctg	ccctctcaa	ggaggtcctc	tgcccagtcg	420
cgggggctga	cccagagctc	tgcgtcccag	gcagaatgcc	taccgtgctg	cagtgcgtga	480
acgtgtcggg	ggtgtctgag	gaggtctgca	gtaagctcta	tgacccgctg	taccaccca	540
gcattgtctg	cgccggcgga	gggcaagacc	agaaggactc	ctgcaacggt	gactctgggg	600
ggccctgat	ctgcaacggy	tacttgagg	gccttggtc	tttcggaaaa	gccccgtgtg	660
gccaagttgg	cgtgccaggt	gtctacacca	accttgcaa	attcactgag	tggatagaga	720
aaaccgtcca	ggccagttaa	ctctagggac	tgggaaccca	tgaattgac	ccccaaatac	780
atctcgcgga	aggaattcag	gaatatctgt	tcccgcccc	tcctccctca	ggccaggag	840
tccaggcccc	agccccctc	tccctcaaac	caagggtaca	gatccccagc	ccctcctccc	900
tcagacccag	gagtccagac	ccccagccc	ctctccctc	agaccaggga	gtccagcccc	960
tcctcctca	gaccaggag	tccagacccc	ccagccctc	ctccctcaga	cccaggggtt	1020
gaggcccca	acccctctc	cttcagagtc	agaggtccaa	gcccccaacc	cctcggtccc	1080
cagacccaga	ggtnnaggtc	ccagccctc	ttcctcaga	cccagnggtc	caatgccacc	1140
tagattttcc	ctgnacacag	tgcccccttg	tgganngttg	acccaacctt	accagttggt	1200
ttttcatttt	tngtcccttt	cccctagatc	cagaaataaa	gtttaagaga	ngngcaaaaa	1260
aaaaa						1265

<400> 174

gggcagccgc	acactgtttc	cagaagttag	tgcagagctc	ctacaccatc	gggctgggcc	60
tgcacagtct	tgaggccgac	caagagccag	ggagccagat	ggtggaggcc	agcctctccg	120
tacggcacc	agagtacaac	agacccttgc	tcgctaacga	cctcatgtct	atcaagttgg	180
acgaatccgt	gtccgagtct	gacaccatcc	ggagcatcag	catgtcttcg	cagtgcctta	240
ccgcggggaa	ctcttgctc	gtttctggct	ggggtctgct	ggcgaaacgt	gagctcacgg	300
gtgtgtgtct	gccctcttca	aggaggctct	ctgccagtc	gcgggggctg	acccagagct	360
ctgcgtccca	ggcagaatgc	ctaccgtgct	gcagtcgctg	aacgtgtcgg	tggtgtctga	420
ngaggtctgc	antaagctct	atgaccgcgt	gtacaccccc	ancatgttct	gcgcggcgcg	480
agggcaagac	cagaaggact	cctgcaacgt	gagagagggg	aaaggggagg	gcaggcgact	540
cagggaaggg	tggagaaggg	ggagacagag	acacacaggg	ccgcatggcg	agatgcagag	600
atggagagac	acacagggag	acagtgacaa	ctagagagag	aaactgagag	aaacagagaa	660
ataaacacag	gaataaagag	aagcaaagga	agagagaaac	agaaacagac	atggggaggc	720
agaaacacac	acacatagaa	atgcagttga	ccttccaaca	gcattggggc	tgagggcggt	780
gacctccacc	caatagaaaa	tcctcttata	acttttgact	ccccaaaaac	ctgactagaa	840
atagcctact	gttgacgggg	agcctatacca	ataacataaa	tagtcgattt	atgcatacgt	900
tttatgcatt	catgatatac	ctttgttggg	attctttgat	atttctaagc	tacacagttc	960
qtctqtgaat	ttttttaaat	tgttgcacac	ctcctaaaaa	ttttctgatg	tgtttattga	1020


```

aaaaatccaa gtataagtgg acttgtgcat tcaaaccagg gttgttcaag ggtcaactgt 1080
gtaccagag ggaacagtg acacagattc atagaggtga aacacgaaga gaaacaggaa 1140
aatcaagac tctacaaaga ggctgggcag ggtggctcat gcctgtaatc ccagcacttt 1200
gggagggcag gcaggcagat cacttgaggt aaggagttca agaccagcct ggccaaaatg 1260
gtgaaatcct gtctgtacta aaaatacaaa agttagctgg atatgggtggc aggcgcctgt 1320
aatcccagct acttggggagg ctgaggcagg agaattgctt gaatatggga ggcagaggtt 1380
gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440
caaaaaaaaa aaaaaaaaaa 1459

```

```

<210> 175
<211> 1167
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1167)
<223> n = A,T,C or G

```

```

<400> 175
gcgcagccct ggcaggcggc actgggtcatg gaaaacgaat tgttctgctc gggcgctcctg 60
gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 120
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggg ggaggccagc 180
ctctccgtac ggcacccaga gtacaacaga ctcttgctcg ctaacgacct catgctcatc 240
aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag 300
tgccctaccg cggggaactc ttgcctcgtt tctggctggg gtctgctggc gaacggcaga 360
atgcctaccg tgctgcactg cgtgaacgtg tcggtgggtg ctgaggangt ctgcagtaag 420
ctctatgacc cgctgtacca cccagcatg ttctgcgccg gcggagggca agaccagaag 480
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 540
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc cagggtgtcta caccaacctc 600
tgcaaattca ctgagtggat agagaaaacc gtccagncca gtttaactctg gggactggga 660
acccatgaaa ttgaccccca aatacatcct gcggaangaa ttcaggaata tctgttccca 720
gcccctctc cctcaggccc aggagttccag gcccacagcc cctcctcctt caaaccaagg 780
gtacagatcc ccagcccctc ctccctcaga cccaggagtc cagacccccc agcccctcnt 840
ccntcagacc caggagtcca gcccctctc cntcagaagc aggagtccag acccccagc 900
ccntentccg tcagaccagc ggggtgcagg ccccaacccc tcntcentca gagtccagag 960
tccaagcccc caaccctcg ttcccagac ccagaggtnc aggtcccagc cctcctccc 1020
tcagaccagc cgggtccaatg ccacctagan tntccctgta cacagtgcgc ccttgtggca 1080
ngttgaccca accttaccag ttggtttttc attttttgc cctttcccct agatccagaa 1140
ataaagtnta agagaagcgc aaaaaaa 1167

```

```

<210> 176
<211> 205
<212> PRT
<213> Homo sapien

```

```

<220>
<221> VARIANT
<222> (1)...(205)
<223> Xaa = Any Amino Acid

```

```

<400> 176
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
1 5 10 15

```

10250-115000


```
<210> 177
<211> 1119
<212> DNA
<213> Homo sapien
```

<210>	178
<211>	164
<212>	PRT

<223> Xaa = Any Amino Acid

[illegible]

<213> Homo sapien

cttgagtgcc	ttggtgttcc	aagccctgc	aggaagcaga	atgcaccttc	tgaggcacct	60
ccagctgcc	ccggccggg	gatgcgaggc	tcggagcacc	cttgcccggc	tgtgattgct	120
gccaggcact	gttcattcta	gcttttctgt	cccttggctc	ccggcaagcg	ctctgctga	180
aagttcatat	ctggagcctg	atgtcttaac	gaataaagg	cccatgctcc	acccgaaaaa	240
aaaaaaaaaa						250

<213> Homo sapien

```
actagtccag tgtggtgga ttcattgtg ttgggcccaa cacaatggct acctttaaca 60
tcaccagac cccgccctg cccgtgccc acgctgctgc taacgacagt atgatgctta 120
ctctgctact cggaaactat ttttatgtaa ttaatgtatg ctttcttggt tataaatgcc 180
tgatttaaaa aaaaaaaaaa aa 202
```


<400> 183						
aggcgggagc	agaagctaaa	gccaaagccc	aagaagagtg	gcagtgccag	cactgggtgcc	60
agtaccagta	ccaataacag	tgccagtgcc	agtgcagca	ccagtgggtg	cttcagtgct	120
ggtgccagcc	tgaccgccac	tctcacattt	gggctcttcg	ctggccttgg	tggagctggg	180
gccagaccac	gtggcagctc	tgggtgctgt	ggtttctcct	acaagtggaga	ttttagatat	240
tgttaatcct	gccagctctt	ctcttcaagc	cagggtgcct	ctcagaaac	ctactcaaca	300
caqcactcta	gcagccact	atcaatcaat	tgaagttgac	actctgcatt	aratctattt	360

384

```
<210> 184
<211> 496
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)..(496)
<223> n = A,T,C or G
```

<400> 184						
accgaattgg	gaccgctggc	ttataagcga	tcatgtyynt	ccrgtatkc	ctcaacgagc	60
agggagatcg	agtctatacg	ctgaagaaat	ttgacccgat	gggacaacag	acctgctcag	120
cccatcctgc	tcggttctcc	ccagatgaca	aatactctsg	acaccgaatc	accatcaaga	180
aacgcttcaa	ggtgctcatg	accagcaac	cgcgccctgt	cctctgaagg	tcccttaaac	240
tgatgtcttt	tctgccacct	gttacccttc	ggagactccg	taaccaaaact	cttcggactg	300
tgagccctga	tgccctttttg	ccagccatac	tctttggcat	ccagtctctc	gtggcgattg	360
attatgcttg	tgtgaggcaa	tcatggtggc	atcacccata	aagggaacac	atttgacttt	420
tttttctcat	atttttaatt	actacmagaw	tattwmagaw	waaatgawtt	gaaaaactst	480
taaaaaaaaaa	aaaaaa					496

```
<210> 185
<211> 384
<212> DNA
<213> Homo sapien
```

<400>	185						
gctggtagcc	tatggcgkkg	cccacggagg	ggctcctgag	gccacggrac	agtgacttcc		60
caagtatcyt	gcgcsgcgtc	ttctaccgtc	cctacctgca	gatcttcggg	cagattcccc		120
aggaggacat	ggacgtggcc	ctcatggagc	acagcaactg	ytcgctggag	cccggtctct		180
gggcacaccc	tcctgggggc	caggcgggca	cctgcgtctc	ccagtatgcc	aactggcttg		240
tggtgctgct	cctcgtcatc	ttcctgctcg	tgccaacat	cctgctggtc	aacttgctca		300
ttgcatggtt	cagttacaca	ttcggcaaa	tacagggcaa	cagcgatctc	tactgggaag		360
gcgcagcgtt	accgcctcat	ccgg					384

```
<210> 186
<211> 577
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(577)  
<223> n = A,T,C or G
```

<400> 186						
gagtttagctc	ctccacaacc	ttgatgaggt	cgtctgcagt	ggcctctcgc	ttcataccgc	60
tnccatcgtc	atactgtagg	tttgccacca	cytctctggca	tcttggggcg	gcntaatatt	120
ccaggaaact	ctcaatcaag	tcaccgtcga	tgaaacctgt	gggctggttc	tgtcttccgc	180
tcggtgtgaa	aggatctctcc	agaaggagtg	ctcgatcttc	cccacacttt	tgatgacttt	240
attgactcga	ttctgcatgt	ccagcaggag	gttgtaccag	ctctctgcga	gtgaggtcac	300
caqccctatc	atgccgttga	mcgtgccgaa	garaccgag	ccttgtgtgq	gggkkgaaqt	360


```
<210> 187
<211> 534
<212> DNA
<213> Homo sapien
```

<400> 187

```
<210> 188
<211> 761
<212> DNA
<213> Homo sapien
```

<400> 188

<210>	189
<211>	482
<212>	DNA

<223> n = A, T, C or G

tttttttttt	tttgcgatn	ctactatttt	attgcaggan	gtgggggtgt	atgcaccgca	60
caccggggct	atnagaagca	agaaggaagg	agggagggca	cagccccttg	ctgagcaaca	120
aagcgcctg	ctgccttctc	tgtctgtctc	ctggtgcagg	cacatgggga	gaccttcccc	180
aaggcagggg	ccaccagtcc	aggggtggga	atacaggggg	tgggangtgt	gcataagaag	240
tgataggcac	aggccacccg	gtacagaccc	ctcggctcct	gacaggtnga	tttcgaccag	300
gtcattgtgc	cctgcccagg	cacagcgtan	atctggaaaa	gacagaatgc	tttccttttc	360
aaatttggtc	ngtcatngaa	ngggcanttt	tccaanttng	gctnggtctt	ggtacncttg	420
gttcggccca	gctccnctc	caaaaantat	tcaccnnct	ccnaattgct	tgcnggnccc	480
cc						482

<213> Homo sapien

<223> n = A, T, C or G

tttttttttt	ttttaaaaca	gtttttcaca	acaaaattta	ttagaagaat	agtggttttg	60
aaaactctcg	catccagtga	gaactaccat	acaccacatt	acagctngga	atgtntctcca	120
aatgtctggt	caaatgatac	aatggaacca	ttcaatctta	catatgcacg	aaagaacaag	180
cgcttttgac	atacaatgca	caaaaaaaaa	aggggggggg	gaccacatgg	attaaaattt	240
taagtactca	tcacatacat	taagacacag	ttctagtcca	gtcnaaaatc	agaactgcnt	300
tgaaaaattt	cttgtatgca	atccaaacca	agaacttnat	tggtgatcat	gantnctcta	360
tctacatcnac	ccttgacatt	gccaggaaacn	aaaagttnaa	ancacnngt	acaaaaanaa	420
ttctgtaattn	anttcaacct	ccqtacnqaa	aaatnttntt	tatacactcc	c	471

<213> Homo sapien

$\langle 223 \rangle$ n = A, T, C or G

gagggattga	aggtctgttc	tastgtcggm	ctgttcagcc	accaactcta	acaagttgct	60
gtcttccact	cactgtctgt	aagcttttta	acccagacwg	tatcttcata	aatagaacaa	120
attcttccac	agtcacatct	tctaggacct	ttttggattc	agttagtata	agctcttcca	180
cttccttttg	taagacttca	tctggtaaag	tcttaagttt	tgtagaaagg	aattyaattg	240
ctcgttctct	aacaatgtcc	tctcgttgaa	qtatttggct	gaacaaccca	cctaaagttc	300


```
<210> 192
<211> 601
<212> DNA
<213> Homo sapien
```

<400> 192

```
<210> 193
<211> 608
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(608)
<223> n = A,T,C or G
```

<400> 193

```
<210> 194
<211> 392
<212> DNA
<213> Homo sapien
```


<220>
 <221> misc_feature
 <222> (1)...(392)
 <223> n = A,T,C or G

<400> 194
 gaacggctgg accttgccctc gcattgtgct tgctggcagg gaataccttg gcaagcagyt 60
 ccagtccgag cagccccaga ccgctgccgc ccgaagctaa gcctgcctct ggccttcccc 120
 tccgcctcaa tgcagaacca gtagtgggag cactgtgttt agagttaaga gtgaacactg 180
 tttgatttta cttgggaatt tcctctgtta tatagctttt cccaatgcta atttccaaac 240
 aacaacaaca aaataacatg tttgcctgtt aagttgtata aaagtaggtg attctgtatt 300
 taaagaaaat attactgtta catatactgc ttgcaatttc tgtatttatt gktnctstgg 360
 aaataaatat agttattaaa ggtgtcant cc 392

<210> 195
 <211> 502
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(502)
 <223> n = A,T,C or G

<400> 195
 ccsttkgagg ggtkaggkyc cagttyccga gtggaagaaa caggccagga gaagtgcgtg 60
 ccgagctgag gcagatgttc ccacagtgc cccagagacc stgggstata gtytctgacc 120
 cctcncaagg aaagaccacs ttctggggac atgggctgga gggcaggacc tagaggcacc 180
 aagggaaggc cccattccgg ggstgttccc cgaggaggaa gggaaggggc tctgtgtgcc 240
 ccccasgagg aagaggccct gagtccctggg atcagacacc ccttcacgtg tatccccaca 300
 caaatgcaag ctcaccaagg tccccctca gtcccccttc stacaccctg amcggccact 360
 gscscacacc caccagagc acgccaccgc ccattgggar tgtgctcaag gartcgcnng 420
 gcarcgtgga catctngtcc cagaaggggg cagaatctcc aatagangga ctgarcnstt 480
 gctnanaaaa aaaaanaaaa aa 502

<210> 196
 <211> 665
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(665)
 <223> n = A,T,C or G

<400> 196
 ggttacttgg tttcattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc 60
 cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt 120
 wagctgtttk gagttgatts gcaccactgc acccacaact tcaatatgaa aacyawttga 180
 actwatattat tatcttgtga aaagtataac aatgaaaatt ttgttcatac tgtattkatc 240
 aagtatgatg aaaagcaawa gatatatatt cttttattat gttaaattat gattgccatt 300
 attaatcggc aaaatgtgga gtgtatgttc ttttcacagt aatatatgcc ttttgtaact 360
 tcacttgggtt attttattgt aaatgartta caaaattctt aatttaagar aatggatatg 420
 watattttatt tcattaattt ctttcctkgt ttacgtwaat tttgaaaaga wtgcatgatt 480


```
<210> 197
<211> 492
<212> DNA
<213> Homo sapien
```

<400> 197

```
<210> 198
<211> 478
<212> DNA
<213> Homo sapien
```

<400> 198

```
<210> 199
<211> 482
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(482)
```


<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(509)
 <223> n = A,T,C or G

<400> 202

tttntttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tggcacttaa	tccattttta	tttcaaaatg	tctacaaant	ttnaatncnc	cattatacng	120
gtnattttnc	aaaatctaaa	nnttattcaa	atntnagcca	aantccttac	ncaaattnaa	180
tacncncaaa	aatcaaaaat	atacntntct	ttcagcaaac	ttngttacat	aaattaaaaa	240
aatatatacg	gctggtgttt	tcaaagtaca	attatcttaa	cactgcaaac	atnttttnaa	300
ggaactaaaa	taaaaaaaaa	cactnccgca	aagggttaaag	ggaacaacaa	attcntttta	360
caacancnnc	nattataaaa	atcatatctc	aaatcttagg	ggaatatata	cttcacacng	420
ggatcttaac	ttttactnca	ctttgtttat	ttttttanaa	ccattgtntt	gggcccaaca	480
caatggnaat	nccnccncnc	tggactagt				509

<210> 203
 <211> 583
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(583)
 <223> n = A,T,C or G

<400> 203

tttttttttt	ttttttttga	ccccctctt	ataaaaaaca	agttaccatt	ttattttact	60
tacacatatt	tattttataa	ttggtattag	atattcaaaa	ggcagctttt	aaaatcaaac	120
taaatggaaa	ctgccttaga	tacataattc	ttaggaatta	gcttaaaatc	tgccataaagt	180
gaaaatcttc	tctagctctt	ttgactgtaa	atttttgact	cttgtaaaac	atccaaattc	240
atttttcttg	tctttaaaaa	tatctaattc	ttccattttt	tcctatttcc	aagtcaattt	300
gcttctctag	cctcatttcc	tagctcttat	ctactattag	taagtggctt	ttttcctaaa	360
agggaaaaca	ggaagagana	atggcacaca	aaacaaacat	tttatattca	tatttctacc	420
tacgttaata	aaatagcatt	ttgtgaagcc	agctcaaaag	aaggcttaga	tccttttatg	480
tccatttttag	tacttaaacg	atatchnaag	tgccagaatg	caaaagggtt	gtgaacattt	540
attcaaaagc	taatataaga	tatttcacat	actcatcttt	ctg		583

<210> 204
 <211> 589
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(589)
 <223> n = A,T,C or G

<400> 204

ttttttttnt	tttttttttt	tttttttnctc	ttcttttttt	ttganaatga	ggatcgagtt	60
tttactcttc	tagatagggc	atgaagaaaa	ctcatctttc	cagcttttaa	ataacaatca	120
aatctcttat	gctatatcat	atttttaagt	aaactaatga	gtcactggct	tatcttctcc	180
tgaaggaaat	ctgttcattc	ttctcattca	tatagttata	tcaagtacta	ccttgcatat	240
tgagaggttt	ttcttctcta	tttacacata	tatttccatg	tgaatttgta	tcaaaccttt	300


```

attttcatgc aaactagaaa ataatgtntt cttttgcata agagaagaga acaatatnag 360
cattacaaaa ctgctcaaat tgtttgtaa gnttatccat tataattagt tnggcaggag 420
ctaatacaaa tcacatttac ngacnagcaa taataaaact gaagtaccag ttaaatatcc 480
aaaataatta aaggaacatt tttagcctgg gtataattag ctaattcact ttacaagcat 540
ttattnagaa tgaattcaca tgttattatt ccntagccca acacaatgg 589

```

```

<210> 205
<211> 545
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(545)
<223> n = A,T,C or G

```

```

<400> 205
ttttnttttt ttttttcagt aataatcaga acaatattta tttttatatt taaaattcat 60
agaaaagtgc cttacattta ataaaagttt gtttctcaaa gtgatcagag gaattagata 120
tngtcttgaa caccaatatt aatttgagga aaatacacca aaatacatta agtaaattat 180
ttaagatcat agagcttgta agtgaaaaga taaaatttga cctcagaaac tctgagcatt 240
aaaaatccac tattagcaaa taaattacta tggacttctt gctttaattt tgtgatgaat 300
atgggggtgc actggtaaac caacacattc tgaaggatac attacttagt gatagattct 360
tatgtacttt gctanatnac gtggatatga gttgacaagt ttctctttct tcaatctttt 420
aaggggcnga ngaaatgagg aagaaaagaa aaggattacg catactgttc tttctatngg 480
aaggattaga tatgttttct ttgccaatat taaaaaaata ataatgttta ctactagtga 540
aacc 545

```

```

<210> 206
<211> 487
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(487)
<223> n = A,T,C or G

```

```

<400> 206
tttttttttt ttttttagtc aagtttctna tttttattat aattaaagtc ttggtcattt 60
catttattag ctctgcaact tacatattta aattaaagaa acgttnttag acaactgtna 120
caatttataa atgtaagggt ccattattga gtanatatat tcctccaaga gtggatgtgt 180
cccttctccc accaactaat gaancagcaa cattagttta attttattag tagatnatac 240
actgctgcaa acgctaattc tcttctecat ccccatgtng atattgtgta tatgtgtgag 300
ttggttnagaa tgcatcanca atctnacaat caacagcaag atgaagctag gcntgggctt 360
tcggtgaaaa tagactgtgt ctgtctgaat caaatgatct gacctatcct cggtggcaag 420
aactcttoga accgcttcct caaaggcngc tgccacattt gtggcntctn ttgcacttgt 480
ttcaaaa 487

```

```

<210> 207
<211> 332
<212> DNA
<213> Homo sapien

```


<400> 207

```
<220>
<221> misc_feature
<222> (1)...(524)
<223> n = A,T,C or G
```

<400> 208

```
<210> 209
<211> 159
<212> DNA
<213> Homo sapien
```

<400> 209

```
<210> 210
<211> 256
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(256)
<223> n = A,T,C or G
```


<400> 210
 actccctggc agacaaaggc agaggagaga gctctgttag ttctgtgttg ttgaactgcc 60
 actgaatttc tttccacttg gactattaca tgccanttga gggactaatg gaaaaacgta 120
 tggggagatt ttanccaatt tangtntgta aatggggaga ctggggcagg cgggagagat 180
 ttgcagggtg naaatggan ggctggtttg ttanatgaac agggacatag gaggtaggca 240
 ccaggatgct aaatca 256

<210> 211
 <211> 264
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 211
 acattgtttt tttgagataa agcattgaga gagctctcct taacgtgaca caatggaagg 60
 actggaacac ataccacat ctttgttctg agggataatt ttctgataaa gtcttgctgt 120
 atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gttaaggaga 180
 ggggagatac attcngaaag aggactgaaa gaaatactca agtnggaaaa cagaaaaaga 240
 aaaaaaggag caaatgagaa gcct 264

<210> 212
 <211> 328
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(328)
 <223> n = A,T,C or G

<400> 212
 acccaaaaaat ccaatgctga atatttggtc tcattattcc canattcttt gattgtcaaa 60
 ggatttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag 120
 gtttatatat gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccggcag 180
 ttnaatttca ttcccattga cttgggatcc ttatcatcag ccagagagat tgaaaattta 240
 cccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag cttggccaca 300
 tttttttttc ctttattcct ttgtcaga 328

<210> 213
 <211> 250
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(250)
 <223> n = A,T,C or G

<400> 213
 acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt 60


```

taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
cattatgcca aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt 180
ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatata tctctnacct 240
tctcatcggt                                     250

```

```

<210> 214
<211> 444
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(444)
<223> n = A,T,C or G

```

```

<400> 214
accagaatc caatgctgaa tatttggctt cattattccc agattctttg attgtcaaag 60
gatttaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg 120
tttatatatg cagcaacaat attcaagcgc gacaacaggt tattgaactt gcccgccagt 180
tgaatttcat tcccattgac ttgggatcct tatcatcagc canagagatt gaaaatttac 240
ccctacgact ctttactctc tggagagggc cagtgggtgt agctataagc ttggccacat 300
ttttttttcc tttattcctt tgtcagagat gcgattcatc catatgctan aaaccaacag 360
agtgactttt acaaaattcc tataganatt gtgaataaaa ccttacctat agttgccatt 420
actttgctct ccctaataata cctc                                     444

```

```

<210> 215
<211> 366
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(366)
<223> n = A,T,C or G

```

```

<400> 215
acttatgagc agagcgacat atccaagtgt anactgaata aaactgaatt ctctccagtt 60
taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
cattatgcca aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt 180
ttcaatattt gcatgaacct gctgataagc catgttgaga aacaaatata tctctgacct 240
tctcatcggt aagcagaggc tgtaggcaac atggaccata gcgaanaaaa aacttagtaa 300
tccaagctgt tttctacact gtaaccagggt ttccaaccaa ggtggaaatc tcctatactt 360
ggtgcc                                     366

```

```

<210> 216
<211> 260
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

```



```
<210> 221
<211> 167
<212> DNA
<213> Homo sapien
```

```

<400> 221
actangtgca ggtgcgcac aatatattgtc gatattccct tcattcttga ttccatgagg      60
tcttttgccc agcctgtggc tctactgtag taagtttctg ctgatgagga gccagnatgc      120
ccccactac cttccctgac gctccccana aatcacccaa cctctgtg      167

```

<400> 222						
agggcggtggt	gcggaggggcg	gtactgacct	cattagtagg	aggatgcatt	ctggcacccc	60
gttcttcacc	tgtccccaa	tccttaaaag	gccatactgc	ataaagtcaa	caacagataa	120
atgtttgctg	aattaaagga	tggtgaaaa	aaattaataa	tgaatttttg	cataatccaa	180
ttttctcttt	tatatctta	gaagaagttt	ctttgagcct	attagatccc	gggaatcttt	240
taggtgagca	tgattagaga	gcttgtaggt	tgcttttaca	tatatctggc	atatttgagt	300
ctcgtatcaa	aacaatagat	tggtaaaggt	ggtattattg	tattgataag	t	351

<400> 223						
aaaacaaaaca	aacaaaaaaa	acaattcttc	attcagaaaa	attatcttag	ggactgatat	60
tggttaattat	ggtcaattta	atwrttrtkt	ggggcatttc	cttacattgt	cttgacaaga	120
ttaaaaatgtc	tgtgccaaaa	ttttgtatft	tatttgagaa	cttcttatca	aaagtaatgc	180
tgccaaagga	agtctaagga	attagtagtg	ttcccmccac	ttgtttggag	tgtgctattc	240
taaaagattt	tgatttcctg	gaatgacaat	tatatftftaa	ctttggaggg	ggaaanagtt	300
ataggaccac	agtcttcact	tctgatactt	gtaaaattaat	cttttattgc	acttgttttg	360
accattaagc	tatatgttta	aaa				383

<210>	224
<211>	320
<212>	DNA

<213> Homo sapien

<400> 224

ccccctgaagg	cttcttggtta	gaaaatagta	cagttacaac	caataggaac	aacaaaaaga	60
aaaagtttgt	gacattgtag	tagggagtgt	gtaccctta	ctcccatca	aaaaaaaaat	120
ggatacatgg	ttaaaggata	raagggaat	attttatcat	atgttctaaa	agagaaggaa	180
gagaaaatac	tactttctcr	aaatggaagc	ccttaaagggt	gctttgatac	tgaaggacac	240
aaatgtggcc	gtccatcctc	ctttaragtt	gcatgacttg	gacacggtaa	ctgttgagcgt	300
tttaractcm	gcattgtgac					320

<210> 225

<211> 1214

<212> DNA

<213> Homo sapien

<400> 225

gaggactgca	gcccgcactc	gcagccctgg	caggcgccac	tggatcatgga	aaacgaattg	60
ttctgctcgg	gcgtcctggt	gcacccgcag	tgggtgctgt	cagccgcaca	ctgtttccag	120
aactcctaca	ccatcgggct	gggcctgcac	agtcttgagg	ccgaccaaga	gccagggagc	180
cagatgggtg	aggccagcct	ctccgtacgg	caccagaggt	acaacagacc	cttgctcgtc	240
aacgacctca	tgctcatcaa	gttgacgaa	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattg	cttcgcagtg	ccctaccgcg	gggaactctt	gcctcgtttc	tggctggggt	360
ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	tgaacgtgtc	gggtggtgtc	420
gaggaggtct	gcagtaagct	ctatgacccg	ctgtaccacc	ccagcatggt	ctgcgccggc	480
ggagggcaag	accagaagga	ctcctgcaac	ggtgactctg	gggggcccc	gatctgcaac	540
gggtacttgc	agggccttgt	gtctttcgga	aaagccccgt	gtggccaagt	tggcgtgcc	600
ggtgtctaca	ccaacctctg	caaattcact	gagtggatag	agaaaaccgt	ccaggccagt	660
taactctggg	gactgggaac	ccatgaaatt	gacccccaaa	tacatcctgc	ggaaggaatt	720
caggaatata	tggtcccagc	ccctcctccc	tcaggcccag	gagtccaggc	ccccagcccc	780
tcctccctca	aaccaagggt	acagatcccc	agccccctct	ccctcagacc	caggagtcca	840
gacccccag	ccctcctccc	ctcagaccca	ggagtccagc	ccctcctccc	tcagaccag	900
gagtccagac	ccccagcccc	ctcctccctc	agaccaggg	gtccaggccc	ccaaccctc	960
ctccctcaga	ctcagaggtc	caagccccca	acccctcctt	ccccagacc	agaggtccag	1020
gtcccagccc	ctcctccctc	agaccagcg	gtccaatgcc	acctagactc	tcctgtaca	1080
cagtgcctcc	ttgtggcacg	ttgacccaac	cttaccagtt	ggtttttcat	ttttgtccc	1140
tttcccctag	atccagaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

<210> 226

<211> 119

<212> DNA

<213> Homo sapien

<400> 226

accagtatg	tgcagggaga	cggaacccca	tgtgacagcc	cactccacca	gggttcccaa	60
agaacctggc	ccagtcataa	tcattcatcc	tgacagtggc	aataatcacg	ataaccagt	119

<210> 227

<211> 818

<212> DNA

<213> Homo sapien

<400> 227

acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggtctctccc	ccagccctga	60
------------	------------	------------	------------	-------------	------------	----

tttttgctac	atatgggggtc	cctttttcatt	ctttgcaaaa	acactggggtt	ttctgagaac	120
acggacgggtt	cttagcacaa	tttgtgaaat	ctgtgtaraa	ccgggctttg	caggggagat	180
aatttttcctc	ctctggagga	aaggtgggtga	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaagcca	cgctcggcct	tctctgaacc	aggatggaac	ggcagacccc	tgaaaacgaa	300
gcttgtcccc	ttccaatcag	ccacttctga	gaacccccat	ctaacttcct	actggaaaag	360
agggcctcct	caggagcagt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420
ggaaagggtg	caccctcagc	agagaagccg	agagcttaac	tctggtcgtt	tccagagaca	480
acctgctggc	tgtcttggga	tgcgcccagc	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	tgggcttcaa	cactgagttg	tcatgagagg	600
gacaggctct	gccctcaagc	cggctgaggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggct	720
caagaggata	tgaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780
gtccacttct	aggttttcag	cctagatggg	agtcgtgt			818

<210> 228

<211> 744

<212> DNA

<213> Homo sapien

<400> 228

actggagaca	ctgttgaact	tgatcaagac	ccagaccacc	ccaggctctcc	ttcgtgggat	60
gtcatgacgt	ttgacatacc	tttggaaacga	gcctcctcct	tggagatgg	aagaccgtgt	120
tctgtggcga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcac	atttcaatgg	180
taggaaaagt	ggcttcgtaa	aatagaagag	cagtcaactgt	ggaactacca	aatggcgaga	240
tgctcgggtg	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agcttttccc	acagcagtc	acctctgcag	360
gctggcagct	gaatggcttg	ccggtggctc	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggctcct	tccaggttgg	480
ccagacgggtg	ttggccactc	ccttctaaaa	cacaggcgcc	ctcctgggtga	cagtgacccg	540
ccgtgggtatg	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttggggtttg	600
ttcttttctg	taatgttctc	ctgtgttgct	agctgtcttc	atttctctgg	ctaagcagca	660
ttgggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaga	cacttttctt	720
cttcaactctg	aagtagctgg	tggt				744

<210> 229

<211> 300

<212> DNA

<213> Homo sapien

<400> 229

cgagtctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcatgtgaac	60
cattacacat	cgaaataaaa	gaaagggtgg	agacttgccc	aacgccaggc	tgacatgtgc	120
tgcagggttg	ttgtttttta	attattattg	ttagaaacgt	caccacacagt	ccctgttaat	180
ttgtatgtga	cagccaactc	tgagaaggct	ctatttttcc	acctgcagag	gatccagtct	240
cactaggctc	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

<210> 230

<211> 301

<212> DNA

<213> Homo sapien

<400> 230

cagcagaaca	aatacaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120

caatataaag tcctggttca cactcaggaa cgagagctga cccagttaag ggagaagttg 180
 cggaagggga gagatgcctc cctctcattg aatgagcatc tccaggccct cctcactccg 240
 gatgaaccgg acaagtccca ggggcaggac ctccaagaaa cagacctcgg ccgcgaccac 300
 g 301

<210> 231
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 231
 gcaagcacgc tggcaaactc ctgtcaggtc agctccagag aagccattag tcatttttagc 60
 caggaactcc aagtccacat ccttggcaac tggggacttg cgcaggttag ccttgaggat 120
 ggcaacacgg gactttctcat caggaagtgg gatgtagatg agctgatcaa gacggccagg 180
 tctgaggatg gcaggatcaa tgatgtcagg ccggttggtg ccgccaatga tgaacacatt 240
 tttttttgtg gacatgccat ccatttctgt caggatctgg ttgatgactc ggtcagcagc 300
 c 301

<210> 232
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 232
 agtaggtatt tcgtgagaag ttcaacacca aaactggaac atagttctcc ttcaagtgtt 60
 ggcgacagcg gggcttctg attctggaat ataactttgt gtaaattaac agccacctat 120
 agaagagtc atctgctgtg aaggagagac agagaactct gggttccgtc gtctgttcca 180
 cgtgctgtac caagtgtctg tgccagcctg ttacctgttc tcaactgaaa tctggctaatt 240
 gctcttgtgt atcacttctg attctgacaa tcaatcaatc aatggcctag agcactgact 300
 g 301

<210> 233
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 233
 atgactgact tcccagtaag gctctctaag gggtaagtag gaggatccac aggatttgag 60
 atgctaaggc cccagagatc gtttgatcca accctcttat ttccagaggg gaaaatgggg 120
 cctagaagtt acagagcatc tagctggtgc gctggcacc cctggcctcac acagactccc 180
 gagttagctg gactacaggc acacagtcac tgaagcaggc cctgttagca attctatgcg 240
 taaaaattaa catgagatga gtagagactt tattgagaaa gcaagagaaa atcctatcaa 300
 c 301

<210> 234
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 234
 aggtcctaca catcgagact catccatgat tgatatgaat ttaaaaatta caagcaaaga 60
 cattttattc atcatgatgc tttcttttgt ttcttctttt cgttttcttc tttttctttt 120
 tcaatttcag caacatactt ctcaatttct tcaggattta aaatcttgag ggattgatct 180
 cgcctcatga cagcaagttc aatgtttttg ccacctgact gaaccacttc caggagtgcc 240

ttgatcacca gcttaatggc cagatcatct gcttcaatgg cttcgtcagt atagttcttc 300
t 301

<210> 235
<211> 283
<212> DNA
<213> Homo sapien

<400> 235
tggggctgtg catcaggcgg gtttgagaaa tattcaattc tcagcagaag ccagaatttg 60
aattccctca tcttttaggg aatcatcttac caggtttgga gaggattcag acagctcagg 120
tgctttcact aatgtctctg aacttctgtc cctctttgtt catggatagt ccaataaata 180
atgttatctt tgaactgatg ctcataggag agaataaag aactctgagt gatatacaaca 240
ttagggattc aaagaaatat tagatttaag ctcacactgg tca 283

<210> 236
<211> 301
<212> DNA
<213> Homo sapien

<400> 236
aggtcctcca ccaactgcct gaagcacggc taaaattggg aagaagtata gtgcagcata 60
aatactttta aatcgatcag atttccctaa cccacatgca atcttcttca ccagaagagg 120
tcggagcagc atcattaata ccaagcagaa tgcgtaatag ataaatacaa tggatatatag 180
tgggtagacg gcttcatgag tacagtgtac tgtggtatcg taatctggac ttgggttgta 240
aagcatcgtg taccagtcag aaagcatcaa tactcgacat gaacgaatat aaagaacacc 300
a 301

<210> 237
<211> 301
<212> DNA
<213> Homo sapien

<400> 237
cagtggtagt ggtgggtggc gtggcggttg tcgtgggtgcc ttttttggtg cccgtcacaa 60
actcaatttt tgctcgctcc tttttggcct tttccaattt gtccatctca attttctggg 120
ccttggctaa tgcctcatag taggagtcct cagaccagcc atggggatca aacatactct 180
ttgggtagtt ggtgccaagc tcgtcaatgg cacagaatgg atcagcttct cgtaaatacta 240
gggttccgaa attctttctt cctttggata atgtagttca tatccattcc ctcttttctc 300
t 301

<210> 238
<211> 301
<212> DNA
<213> Homo sapien

<400> 238
gggcaggttt tttttttttt ttttttgatg gtgcagaccc ttgctttatt tgtctgactt 60
gttcacagtt cagccccctg ctccagaaac caacgggcca gctaaggaga ggaggaggca 120
ccttgagact tccggagtcg aggctctcca gggttcccca gcccatcaat cattttctgc 180
acccctgcc tgggaagcag ctccctgggg ggtgggaatg ggtgactaga agggatttca 240
gtgtgggacc cagggtctgt tcttcacagt aggaggtgga agggatgact aatttcttta 300
t 301

<400> 239

<400> 240

<400> 241

<400> 242

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<210> 243
<211> 301
<212> DNA
<213> Homo sapien
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<400> 243
 aggtaagtcc cagtttgaag ctcaaaagat ctggtatgag cataggctca tcgacgacat 60
 ggtggcccaa gctatgaaat cagagggagg cttcatctgg gcctgtaaaa actatgatgg 120
 tgacgtgcag tcggactctg tggcccaagg gtatggctct ctcggcatga tgaccagcgt 180
 gctggtttgt ccagatggca agacagtaga agcagaggct gccacggga ctgtaacccg 240
 tcactaccgc atgttccaga aaggacagga gacgtccacc aatcccattg cttccatttt 300
 t 301

<210> 244
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 244
 gctggtttgc aagaatgaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa 60
 gtcattgcaat cccatttgca ggatctgtct gtgcacatgc ctctgtagag agcagcattc 120
 ccagggaacct tggaaacagt tgacactgta aggtgcttgc tccccaagac acatcctaaa 180
 aggtgtttgta atggtgaaaa cgtcttcctt ctttattgcc ctttcttatt tatgtgaaca 240
 actgtttgtc ttttgtgtat cttttttaaa ctgtaaagtt caattgtgaa aatgaatatc 300

<210> 245
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 245
 gtctgagtat ttaaaatggt attgaaatta tccccaacca atgttagaaa agaaagagg 60
 tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tcttagaatt 120
 aaggccagga gatattgtca ttaatgtara cttcaggaca ctagagtata gcagccctat 180
 gttttcaaag agcagagatg caattaaata ttgttttagca tcaaaaaggc cactcaatac 240
 agctaataaa atgaaaagacc taatttctaa agcaattctt tataattttac aaagttttaa 300
 g 301

<210> 246
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 246
 ggtctgtcct acaatgcctg cttcttgaaa gaagtcggca ctttctagaa tagctaaata 60
 acctgggctt attttaaaga actatttgta gctcagattg gttttcctat ggctaaaata 120
 agtgcttctt gtgaaaatta aataaaacag ttaattcaaa gccttgatat atgttaccac 180
 taacaatcat actaaatata ttttgaagta caaagtttga catgctctaa agtgacaacc 240
 caaatgtgtc ttacaaaaca cgttcctaac aaggtatgct ttacactacc aatgcagaaa 300
 c 301

<210> 247
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 247
 aggtcctttg gcagggtca tggatcagag ctcaaactgg agggaaaggc atttcgggta 60
 gcctaagagg gcgactggcg gcagcacaac caaggaaggc aaggttgttt cccccacgct 120

gtgtcctgtg ttcagggtgcg acacacaatc ctcatgggaa caggatcacc catgcgctgc 180
 ccttgatgat caagggttggg gcttaagtgg attaagggag gcaagttctg ggttccttgc 240
 cttttcaaac catgaagtca ggctctgtat ccctcctttt cctaactgat attctaacta 300
 a 301

<210> 248
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 248
 aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcact 60
 attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa cttaagaatt 120
 acaggaagaa agtggtttgg aagacagcca aagaaataaa agcagattaa attgtatcag 180
 gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag 240
 ctaatgagac tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc 300
 c 301

<210> 249
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 249
 gtccagagga agcacctggg gctgaactag gcttgccctg ctgtgaactt gcacttggag 60
 ccctgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgtcccgcgc 120
 ccaggagagac acagcagtga ctcagagctg gtcgcacact gtgcctccct cctcaccgcc 180
 catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag 240
 actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt 300
 a 301

<210> 250
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 250
 ggtctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaacac tacacttctc 60
 cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc 120
 cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac 180
 ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta 240
 caataaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc 300
 a 301

<210> 251
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 251
 gccgaggtcc tacatttggc ccagtttccc cctgcacccct ctccagggcc cctgcctcat 60
 agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat 120
 ggcaggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct 180
 cattgggatc aatgaaaagc ttcaagaaat cttcaggctc actctcttga aggcccgga 240


```
<210> 252
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 253
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 254
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 255
<211> 302
<212> DNA
<213> Homo sapien
```

<400> 255							
agcttttttt	tttttttttt	tttttttttt	ttcattaaaa	aatagtgtct	tttattataa		60
attactgaaa	tgtttctttt	ctgaatataa	atataaatat	gtgcaaagtt	tgacttggat		120
tgggattttg	ttgagttctt	caagcatctc	ctaataccct	caagggcctg	agtagggggg		180
aggaaaaagg	actggagggtg	gaatctttat	aaaaacaag	agtgattgag	gcagattgta		240
aacattatta	aaaaacaaga	aacaaacaaa	aaaatagaga	aaaaaaccac	cccaacacac		300
aa							302


```
<210> 259
<211> 301
<212> DNA
<213> Homo sapien
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<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 259
 tcatatatgc aaacaaatgc agactangcc tcaggcagag actaaaggac atctcttggg 60
 gtgtcctgaa gtgatttggg cccctgaggg cagacaccta agtaggaatc ccagtgggaa 120
 gcaaagccat aaggaagccc aggattcctt gtgatcagga agtgggccag gaaggtctgt 180
 tccagctcac atctcatctg catgcagcac ggaccggatg cgcctactgg gtcttggctt 240
 ccctcccatc ttctcaagca gtgtccttgt tgagccattt gcatccttgg ctccaggtgg 300
 c 301

<210> 260
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 260
 ttttttttct ccctaaggaa aaagaaggaa caagtctcat aaaaccaa at aagcaatggt 60
 aaggtgtctt aacttgaaaa agattaggag tcaactggtt acaagttata attgaatgaa 120
 agaactgtaa cagccacagt tggccatttc atgccaatgg cagcaaaca caggattaac 180
 tagggcaaaa taaataagtg tgtggaagcc ctgataagtg cttataaac agactgattc 240
 actgagacat cagtacctgc ccgggcggcc gctcgagccg aattctgcag atatccatca 300
 c 301

<210> 261
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 261
 aaatattcga gcaaatcctg taactaatgt gtctccataa aaggctttga actcagtga 60
 tctgcttcca tccacgattc tagcaatgac ctctcggaca tcaaagctcc tcttaagggt 120
 agcaccaact attccatata attcatcagc aggaaataaa ggctcttcag aaggttcaat 180
 ggtgacatcc aatttcttct gataatttag attcctcaca accttcctag ttaagtgaag 240
 ggcatgatga tcatccaaag cccagtggtc acttactcca gactttctgc aatgaagatc 300
 a 301

<210> 262
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 262
 gaggagagcc tggtacagca tttgtaagca cagaatactc caggagtatt tgtaattgtc 60
 tgtgagcttc ttgccgcaag tctctcagaa atttaaaaag atgcaaatcc ctgagtcacc 120
 cctagacttc ctaaaccaga tcctctgggg ctggaacctg gcaactctga tttgtaatga 180
 gggctttctg gtgcacacct aattttgtgc atctttgccc taaatcctgg attagtccc 240
 catcattacc cccacattat aatgggatag attcagagca gatactctcc agcaaagaat 300
 c 301

<210> 263

<211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 263
 tttagcttgt ggtaaatgac tcacaaaact gatttttaaaa tcaagttaat gtgaattttg 60
 aaaattacta cttaatccta attcacaata acaatggcat taaggtttga cttgagttgg 120
 ttcttagtat tatttatggg aaataggctc ttaccacttg caaataactg gccacatcat 180
 taatgactga ctccccagta aggctctcta aggggtaagt angaggatcc acaggatttg 240
 agatgctaag gccccagaga tcgtttgatc caaccctctt attttcagag gggaaaatgg 300
 g 301

<210> 264
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 264
 aaagacgtta aaccactcta ctaccacttg tggaactctc aaagggttaa tgacaaaacc 60
 aatgaatgac tctaaaaaca atatttacat ttaatggttt gtagacaata aaaaaacaag 120
 gtggatagat ctagaattgt aacattttta gaaaaccata scatttgaca gatgagaaaag 180
 ctcaattata gatgcaaagt tataactaaa ctactatagt agtaaagaaa tacatttcac 240
 acccttcata taaattcact atcttggtt gagggcactcc ataaaatgta tcacgtgcat 300
 a 301

<210> 265
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 265
 tgcccaagtt atgtgtaagt gtatccgcac ccagaggtaa aactacactg tcatctttgt 60
 cttcttgtga cgcagtattt cttctctggg gagaagccgg gaagtcttct cctggctcta 120
 catattcttg gaagtctcta atcaactttt gtccattttg tttcatttct tcaggaggga 180
 ttttcagttt gtcaacatgt tctctaacaa cacttgccca tttctgtaaa gaatccaaag 240
 cagtccaagg ctttgacatg tcaacaacca gcataactag agtatccttc agagatacgg 300
 c 301

<210> 266
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 266
 taccgtctgc ctttctctcc atccaggcca tctgcgaatc tacatgggtc ctctatttcg 60
 acaccagatc actcttttct ctaccacacag gcttgctatg agcaagagac acaacctcct 120
 ctcttctgtg ttccagcttc ttttctgtt cttcccaccc cttaagttct atttctgggg 180
 atagagacac caatacccat aacctctctc ctaagcctcc ttataaccba ggggtgcacag 240
 cacagactcc tgacaactgg taaggccaat gaactgggag ctcacagctg gctgtgcctg 300

a

<210> 267
<211> 301
<212> DNA
<213> Homo sapien

<400> 267
aaagagcaca ggccagctca gccctgccctg gccatctaga ctcagcctgg ctccatgggg 60
gttctcagtg ctgagtgccat ccaggaaaaag ctcacctaga ccttctgagg ctgaatcttc 120
atcctcacag gcagcttctg agagcctgat attcctagcc ttgatgggtct ggagtaaagc 180
ctcattctga ttcctctcct tcttttcttt caagttggct ttcctcacat ccctctgttc 240
aatcgcttc agcttgctg ctttagccct catttcaga agcttcttct ctttggcatc 300
t 301

<210> 268
<211> 301
<212> DNA
<213> Homo sapien

<400> 268
aatgtctcac tcaactactt cccagcctac cgtggcctaa ttctgggagt tttcttctta 60
gatcttggga gagctggttc ttctaaggag aaggaggaaag gacagatgta actttggatc 120
tcgaagagga agtctaattg aagtaattag tcaacggtcc ttgttttagac tcttggaata 180
tgctgggtgg ctgagtgagc ccttttggag aaagcaagta ttattcttaa ggagtaacca 240
cttcccattg ttctactttc taccatcatc aattgtatat tatgtattct ttggagaact 300
a 301

<210> 269
<211> 301
<212> DNA
<213> Homo sapien

<400> 269
taacaatata cactagctat ctttttaact gtccatcatt agcaccaatg aagattcaat 60
aaaattacct ttattcacac atctcaaaac aattctgcaa attcttagtg aagttaact 120
atagtcacag accttaaata ttcacattgt tttctatgtc tactgaaaat aagttcacta 180
cttttctgga tattctttac aaaatcttat taaaattcct ggtattatca cccccaatta 240
tacagtagca caaccacctt atgtagtttt tacatgatag ctctgtagaa gtttcacatc 300
t 301

<210> 270
<211> 301
<212> DNA
<213> Homo sapien

<400> 270
cattgaagag cttttgcgaa acatcagaac acaagtgctt ataaaattaa ttaagcctta 60
cacaagaata catattcctt ttattttctaa ggagttaaac atagatgtag ctgatgtgga 120
gagcttgctg gtgcagtgc tattggataa cactattcat ggccgaattg atcaagtcaa 180
ccaactcctt gaactggatc atcagaagaa ggggtgtgca cgatatactg cactagataa 240
tggaaccaacc aactaaattc tctcaccagg ctgtatcagt aaactggctt aacagaaaac 300
a 301


```
<210> 274
<211> 301
<212> DNA
<213> Homo sapien
```



```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 274
cttatataact ctttctcaga ggcaaaagag gagatgggta atgtagacaa ttctttgagg      60
aacagtaaat gattattaga gagaangaat ggaccaagga gacagaaatt aacttgtaaa      120
tgattctctt tggaatctga atgagatcaa gaggccagct ttagcttggtg gaaaagtcca      180
tctaggtagt gttgcattct cgtcttcttt tctgcagtag ataatgaggt aaccgaaggc      240
aattgtgctt cttttgataa gaagctttct tggatcatatc aggaaattcc aganaaaagtc      300
c                                                                301

<210> 275
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 275
tcggtgtcag cagcacgtgg cattgaacat tgcaatgtgg agcccaaacc acagaaaatg      60
gggtgaaatt ggccaacttt ctattaactt atgttggtgcaa ttttgccacc aacagtaagc      120
tggcccttct aataaaagaa aattgaaagg tttctcacta aacggaatta agtagtggag      180
tcaagagact ccagggcctc agcgtacctg cccgggcggc cgctcgaagc cgaattctgc      240
agatatccat cacactggcg gncgctcgan catgcatcta gaaggnccaa ttcgccctat      300
a                                                                301

<210> 276
<211> 301
<212> DNA
<213> Homo sapien

<400> 276
tgtacacata ctcaataaat aaatgactgc attgtgggtat tattactata ctgattatat      60
ttatcatgtg acttctaatt agaaaatgta tccaaaagca aaacagcaga tatacaaaat      120
taaagagaca gaagatagac attaacagat aaggcaactt atacattgag aatccaaatc      180
caatacattt aaacatttgg gaaatgaggg ggacaaatgg aagccagatc aaatttgtgt      240
aaaactattc agtatgtttc ccttgcttca tgtctgagaa ggctctcctt caatggggat      300
g                                                                301

<210> 277
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```


<400> 280						
ggtactggag	tttctctccc	ctgtgaaaac	gtaactactg	ttggggagtga	attgagggatg	60
tagaaagggt	gtggaaccaa	attgtggtca	atggaaatag	gagaatatgg	ttctgcactct	120
tgagaaaaaa	acctaagatt	agcccaggta	gttgctgtga	acttcagttt	tctctcctgg	180
gtttgatata	gtttagggtt	ggggtttagat	taagattctaa	attacatcag	gacaaagaga	240

cagactatta actccacagt taattaagga ggtatgttcc atgtttattt gttaaagcag 300
t 301

<210> 281
<211> 301
<212> DNA
<213> Homo sapien

<400> 281
aggtacaaga aggggaatgg gaaagagctg ctgctgtggc attgttcaac ttggatattc 60
gccgagcaat ccaaatacctg aatgaagggg catcttctga aaaaggagat ctgaatctca 120
atgtggtagc aatggccttta tgggtttata cggatgagaa gaactccctt tggagagaaa 180
tgtgtagcac actgcgatta cagctaaata acccgatatt gtgtgtcatg tttgcatttc 240
tgacaagtga aacaggatct tacgatggag ttttgtatga aaacaaagtt gcagtacctc 300
g 301

<210> 282
<211> 301
<212> DNA
<213> Homo sapien

<400> 282
caggctactac agaattaaaa tactgacaag caagtagttt cttggcgtgc acgaattgca 60
tccagaaccc aaaaattaaag aaattcaaaa agacattttg tgggcacctg ctagcacaga 120
agcgcagaag caaagccagc gcagaacccat gctaaccctta cagctcagcc tgcacagaag 180
cgcagaagca aagcccgagg agaaccatgc taaccttaca gctcagcctg cacagaagcg 240
cagaagcaaa gcccgaggcag aacatgctaa ccttacagct cagcctgcac agaagcacag 300
a 301

<210> 283
<211> 301
<212> DNA
<213> Homo sapien

<400> 283
atctgtatac ggcagacaaa ctttatarag tgtagagagg tgagcgaaa gatgcaaaa 60
cactttgagg gctttataat aatatgctgc ttgaaaaaaa aaatgtgtag ttgatactca 120
gtgcatctcc agacatagta aggggttgct ctgaccaatc aggtgatcat tttttctatc 180
acttcccagg ttttatgcaa aaattttgtt aaattctata atggtgatat gcatctttta 240
ggaaacatat acatttttta aaatctattt tatgtaagaa ctgacagacg aatttgcttt 300
g 301

<210> 284
<211> 301
<212> DNA
<213> Homo sapien

<400> 284
caggtaaaaa acgctattaa gtggccttaga atttgaacat ttgtggtctt tatttacttt 60
gcttcgtgtg tgggcaaagc aacatcttcc ctaaataatat attaccaaga aaagcaagaa 120
gcagattagg tttttgacaa aacaaacagg ccaaaagggg gctgacctgg agcagagcat 180
ggtgagaggc aaggcatgag agggcaagtt tgttgtggac agatctgtgc ctactttatt 240
actggagtaa aagaaaacaa agttcattga tgtcgaagga tatatacagt gttagaaatt 300
a 301

<400> 285

<400> 286

<400> 287

<400> 288

gtacaccta	ctgcaaggac	agctgaggaa	tgtaatgggc	agccgctttt	aaagaagtag	60
agtcaatagg	aagacaaatt	ccagttccag	ctcagtcctgg	gtatctgcaa	agctgcaaaa	120
gattcttttaa	gacaatttca	agagaatatt	tccttaaagt	tggcaatttg	gagatcatac	180


```

aaaagcatct gcttttgtga tttaatttag ctcatctggc cactggaaga atccaaacag 240
tctgccttaa ttttgatga atgcatgatg gaaattcaat aatttagaaa gttaaaaaaa 300
a 301

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<210> 289
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 289
ggtacactgt ttccatgtta tgtttctaca cattgctacc tcagtgtcc tggaaactta 60
gcttttgatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatctttg 120
ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa 180
cgttctataa atgaatgtgc tgaagcaaag tgcccatggg ggcggcgaan aagagaaaaga 240
tgtgttttgt tttggactct ctgtggtccc ttccaatgct gtgggtttcc aaccagnnga 300
a 301

```

```

<210> 290
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 290
acactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac 60
tgactgatct gttcatttct ctcacagctc ttaccccaa aagcttttcc accctaagtg 120
ttctgacctc cttttctaata cacagtaggg atagaggcag anccacctac aatgaacatg 180
gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctagcagtgc 240
tgccttgaac aaaaacattt ctccatgtct catthttcttc atgcctcaag taacagtga 300
a 301

```

```

<210> 291
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 291
caggtaccaa tttcttctat cctagaaaca tttcatttta tgttggtgaa acataacaac 60
tatatcagct agatthtttt tctatgcttt acctgctatg gaaaatttga cacattctgc 120
tttactcttt tgtttatagg tgaatcacia aatgtatttt tatgtattct gtagtccaat 180
agccatggct gtttacttca tttaatttat ttagcataaa gacattatga aaaggcctaa 240
acatgagctt cacttcccca ctaactaatt agcatctggt atthtcttaac cgtaatgcct 300
a 301

```

```

<210> 292

```

CCDS14:03660


```
<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G
```

```
<210> 293
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 294
<211> 301
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(301)  
<223> n = A,T,C or G
```

```
<210> 295
<211> 305
<212> DNA
<213> Homo sapien
```

```
<210> 295
<211> 305
<212> DNA
<213> Homo sapien

<400> 295
```



```
<210> 296
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 297
<211> 300
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G
```

```
<210> 298
<211> 301
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(301)  
<223> n = A,T,C or G
```

<400> 298						
tatgggggttt	gtcaccctaaa	agctgatgct	gagaaaggcc	tccctggggc	ccctcccgcg	60
ggcatctgag	agacctggtg	ttccagtgtt	tctggaaatg	ggtcccagtg	ccgcgggctg	120
tgaagctctc	agatcaatca	cggggaagggc	ctggcggtgg	tggccacctg	gaaccaccct	180
gtcctgtctg	tttacatttc	actaycaggt	tttctctggg	cattacnatt	tgttccccta	240
caacagtgac	ctgtgcattc	tgctgtggcc	tgctgtgtct	gcaggtggct	ctcagcgagg	300
t						301

<210> 299
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 299
 gttttgagac ggagttttcac tcttgttgcc cagactggac tgcaatggca gggctctctgc 60
 tcaactgcacc ctctgcctcc caggttcgag caattctcct gcctcagcct cccaggtagc 120
 tgggattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg 180
 gagtttcgcc atgttggcca gctggtctca aactcctgac ctcaagcgac ctgcctgcct 240
 cggcctccca aagtgctgga attataggca tgagtcaaca cgcccagcct aaagatattt 300
 t 301

<210> 300
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 300
 attcagtttt atttgcctgcc ccagtatctg taaccaggag tgccacaaaa tcttgccaga 60
 tatgtccac acccactggg aaaggctccc acctggctac ttctctctatc agctgggtca 120
 gctgcattcc acaaggttct cagcctaata agtttacta cctgccagtc tcaaaactta 180
 gtaaagcaag accatgacat tccccacgg aaatcagagt ttgccccacc gtcttggttac 240
 tataaagcct gcctctaaca gtccttgctt cttcacacca atcccagagc catcccccat 300
 g 301

<210> 301
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 301
 tttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtctgc 60
 agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagttggt 120
 gggaaactcac aaagaccctc agagctgaga cccccacaac agtgggagct cacaaagacc 180
 ctgagagctg agacacccac aacagtggga gctcacaaaag accctcagag ctgagacacc 240
 cacaacagca cctcgttcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt 300
 t 301

<210> 302
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 302
 aggtacacat ttagcttggt gtaaatgact cacaaaactg atttttaaatt caagttaatg 60
 tgaattttga aaattactac ttaatcctaa ttcacaataa caatggcatt aaggtttgac 120
 ttgagttggt tcttagtatt atttatggta aataggctct taccacttgc aaataactgg 180
 ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca 240
 caggatttga gatgctaagg cccagagat cgtttgatcc aaccctctta ttttcagagg 300
 g 301

<210> 303

$\langle 210 \rangle$	307
$\langle 211 \rangle$	637

<400> 307

<210> 308

<211> 647

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$

<221> misc feature

$\langle 222 \rangle$ (1) ... (647)

<223> n = A, T, C or G

<400> 308

<210> 309

<211> 460

<212> DNA

<213> Homo sapien

<400> 309

actttatagt	ttaggctgga	cattggaaaa	aaaaaaaaagc	cagaacaaca	tgtgatagat	60
aatatgattg	gctgcacact	tccagactga	tgaatgatga	acgtgatgga	ctattgtatg	120
gagcacatct	tcagcaagag	ggggaaatac	tcatcatttt	tggccagcag	ttgtttgatc	180
accaaacatc	atgccagaat	actcagcaaa	ccttcttagc	tcttgagaag	tcaaagtcctg	240
ggggaatttta	ttcctggcaa	ttttaattgg	actccttatg	tgagagcagc	ggctaccagg	300
ctgggggtggt	ggagcgaacc	cgtcactagt	ggacatgcag	tggcagagct	cctggtaacc	360
acctagaggga	atacacaggc	acatgtgtga	tgccaaagcgt	gacacctgta	gcactcaaat	420
ttgtcttgtt	tttgtctttc	ggtgtgtaag	attctttaagt			460

<210> 310
 <211> 539
 <212> DNA
 <213> Homo sapien

<400> 310
 acgggactta tcaaataaag ataggaaaag aagaaaactc aaatattata ggcagaaatg 60
 ctaaagggtt taaaatatgt caggattgga agaaggcatg gataaagaac aaagttcagt 120
 taggaaagag aaacacagaa ggaagagaca caataaaagt cattatgtat tctgtgagaa 180
 gtcagacagt aagatttgtg ggaaatgggt tggtttggtg tatggtatgt attttagcaa 240
 taatctttat ggcagagaaa gctaaaatcc tttagcttgc gtgaatgatc acttgctgaa 300
 ttctcaagg taggcatgat gaaggagggt ttagaggaga cacagacaca atgaactgac 360
 ctagatagaa agccttagta tactcagcta ggaatagtga ttctgagggc aactgtgac 420
 atgattatgt cattacatgt atggtagtga tgggtagat aggaaggaag aacttatggc 480
 atattttcac cccacaaaa gtcagttaaa tattgggaca ctaaccatcc aggtcaaga 539

<210> 311
 <211> 526
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(526)
 <223> n = A,T,C or G

<400> 311
 caaatttgag ccaatgacat agaattttac aaatcaagaa gcttattctg gggccatttc 60
 ttttgacgtt ttctctaaac tactaaagag gcattaatga tccataaatt atattatcta 120
 catttacagc atttaaaatg tggtcagcat gaaatattag ctacagggga agctaaataa 180
 attaaacatg gaataaagat ttgtccttaa atataatcta caagaagact ttgatatttg 240
 tttttcacaa gtgaagcatt cttataaagt gtcataacct ttttggggaa actatgggaa 300
 aaaatgggga aactctgaag ggttttaagt atcttacctg aagctacaga ctccataacc 360
 tctctttaca gggagctcct gcagccccta cagaaatgag tggctgagat tcttgattgc 420
 acagcaagag cttctcatct aaaccctttc cctttttagt atctgtgtat caagtataaa 480
 agttctataa actgtagtnt acttatttta atcccaaaag cacagt 526

<210> 312
 <211> 500
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(500)
 <223> n = A,T,C or G

<400> 312
 cctctctctc cccaccccct gactctagag aactgggttt tctccagta ctccagcaat 60
 tcattttctga aagcagttga gccactttat tccaaagtac actgcagatg ttcaaactct 120
 ccattttctc ttcccttcca cctgccagtt ttgctgactc tcaacttgct atgagtgtaa 180
 gcattaagga cattatgctt cttcgattct gaagacaggc cctgctcatg gatgactctg 240
 gcttcttagg aaaatatttt tcttccaaaa tcagtaggaa atctaaactt atcccctctt 300
 tgcagatgtc tagcagcttc agacatttgg ttaagaacct atgggaaaaa aaaaaatcct 360

tgctaattgtg	gtttcctttg	taaaccanga	ttcttatattg	nectggtatag	aatatcagct	420
ctgaacgtgt	ggtaaagatt	tttgtgtttg	aatataggag	aaatcagttt	gctgaaaagt	480
tagtcttaat	tatctattgg					500

```
<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G
```

ggagatttgt	gtggtttgca	gccgagggag	accaggaaga	tctgcatggt	gggaaggacc	60
tgatgataca	gaggtgagaa	ataagaaagg	ctgctgactt	taccatctga	ggccacacat	120
ctgctgaaat	ggagataatt	aacatcacta	gaaacagcaa	gatgacaata	taatgtctaa	180
gtagtgcacat	gtttttgca	atttccagcc	cttttaataa	tccacacaca	caggaaagcac	240
aaaaggaagc	acagagatcc	ctgggagaaa	tgcccggccg	ccatcttggg	tcatcgatga	300
gcctcgccct	gtgcctgntc	cgcgttgtga	gggaaggaca	ttagaaaatg	aattgatgtg	360
ttccttaaag	gatggcagga	aaacagatcc	tgttgtggat	atttattttga	acggggattac	420
agatttgaaa	tgaagtcaca	aagtgagcat	taccaatgag	aggaaaacag	acgagaaaat	480
cttgatggtt	cacaagacat	gcaacaacaa	aaatggaata	ctgtgatgac	acgagcagcc	540
aactggggag	gagataccac	ggggcagagg	tcaggattct	ggccctgctg	cctaactgtg	600
cgttatacca	atcattttcta	tttctacct	caacaagct	gtngaatact	tgacttacgg	660
ttctntggc	ccacattttc	atnatccacc	cctcntttt	aannttantic	caaantgt	718

<400> 314

gtttattttac	attacagaaa	aaacatcaag	acaatgtata	ctattttcaa	tatatccata	60
cataatcaaa	tatagctgta	gtacatgttt	tcattgggtg	agattaccac	aaatgcaagg	120
caacatgtgt	agatctcttg	tcttattctt	ttgtctataa	tactgtattg	tgtagtccaa	180
gctctcggtg	gtccagccac	tgtgaaacat	gctcccttta	gattaaacctc	gtggacgctc	240
ttgttgttatt	gctgaactgt	agtgcctctg	attttgcttc	tgctctgtga	tgttgcttgc	300
tctggggcat	ttccttgtga	tcgacaggac	caccacacag	atgcagagcaa	tctgaatt	358

<400> 315

taccacctcc	cgcgtggcac	tgatgagccg	catcaccatg	gtcaccagca	ccatgaaggc	60
ataggtgatg	atgaggacat	ggaatgggcc	cccaaggatg	gtctgtccaa	agaagcgagt	120
gacccccatt	ctgaagatgt	ctggaacctc	taccagcagg	atgatgatag	ccccaatgac	180
agtcaccagg	tccccgacca	gccggatatc	gtccttaggg	gtcatgtagg	cttctctgaag	240
tagcttctgc	tgtaagaggg	tgttgtcccg	ggggctctgt	gtctatttgg	tctctgggctt	300
gaagggggcag	tgatgtcagc	acattgtgaa	qcgagctatg	t		341

<210> 316
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 316
 agactgggca agactcttac gccccacact gcaatttggt cttgttgccg tatccattta 60
 tgtgggcctt tctcgagttt ctgattataa acaccactgg agcgatgtgt tgactggact 120
 cattcagga gctctgggtt caatattagt t 151

<210> 317
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 317
 agaactagt gacctaataa aaatacctga aacatatatt ggcatttatc aatggctcaa 60
 atcttcattt atctctggcc ttaaccctgg ctctgagggc tgcggccagc agatcccagg 120
 ccagggctct gttcttgcca cacctgctt a 151

<210> 318
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 318
 actggtggga ggcgctgttt agttggctgt tttcagaggg gtctttcggga gggacctcct 60
 gctgcaggct ggagtgtctt tattcctggc gggagaccgc acattccact gctgaggctg 120
 tgggggcggg ttatcaggca gtgataaaca t 151

<210> 319
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 319
 aactagtggga tccagagcta taggtacagt gtgatctcag ctttgcaaac acattttcta 60
 catagatagt actaggtatt aatagatatg taaagaaaga aatcacacca ttaataatgg 120
 taagattggg tttatgtgat ttagtgggt a 151

<210> 320
 <211> 150
 <212> DNA
 <213> Homo sapien

<400> 320
 aactagtggga tccactagtc cagtgtgggt gaattccatt gtgttggggg tctagatcgc 60
 gagcggctgc cctttttttt tttttttttt ggggggaatt tttttttttt aatagttatt 120
 gagtgttcta cagcttacag taaataccat 150

<210> 321
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 321
agcaactttg tttttcatcc aggttatttt aggccttagga tttcctctca cactgcagtt 60
taggggtggca ttgtaaccag ctatggcata ggtgttaacc aaaggctgag taaacatggg 120
tgcctctgag aaatcaaagt cttcatacac t 151

<210> 322
<211> 151
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(151)
<223> n = A,T,C or G

<400> 322
atccagcatc ttctcctggt tcttgccctc ctttttcttc ttcttasatt ctgcttgagg 60
tttgggcttg gtcagtttgc cacagggctt ggagatgggt acagtcttct ggcattcggc 120
attgtgcagg gctcgttca nacttccagt t 151

<210> 323
<211> 151
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(151)
<223> n = A,T,C or G

<400> 323
tgaggacttg tktttctttt ctttattttt aatcctotta ckttgtaaatt atattgccta 60
nagactcant tactaccag tttgtgggtt twtgggagaa atgtaactgg acagttagct 120
gttcaatyaa aaagacactt ancccatgtg g 151

<210> 324
<211> 461
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(461)
<223> n = A,T,C or G

<400> 324
acctgtgtgg aatttcagct ttctcatgc aaaaggattt tgtatccccg gcctacttga 60
agaagtggc agctaaagga atccaggttg ttggttgac tgtaataacc tttgatgaaa 120
agagttacta cgaatcccat cttgggtcca gctatatcac tgacagcatg gtagaagact 180
gcgaacctca cttctagact ttcacgggtg gacgaaacgg gttcagaaac tgccaggggc 240
ctcatcacagg gatatacaaaa taccctttgt gctaccacagg ccctggggaa tcaggtgact 300
cacacaaatg caatagttgg tcaactgcatt tttacctgaa ccaaagctaa acccggtgtt 360
gccaccatgc accatggcat gccagagttc aacactgttg ctcttgaaaa ttgggtctga 420

461

<400> 325

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<210> 326
<211> 1215
<212> DNA
<213> Homo sapien
```

<400> 326

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<210> 327
<211> 220
<212> PRT
<213> Homo sapien
```

<400> 327

Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu Val Met
1 5 10 15
Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val
20 25 30

Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly
 35 40 45
 Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu
 50 55 60
 Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala
 65 70 75 80
 Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp
 85 90 95
 Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn
 100 105 110
 Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro
 115 120 125
 Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu Val Cys
 130 135 140
 Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly
 145 150 155 160
 Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro
 165 170 175
 Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala
 180 185 190
 Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys
 195 200 205
 Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 210 215 220

<210> 328
 <211> 234
 <212> DNA
 <213> Homo sapien

<400> 328
 cgctcgtctc tggtagctgc agccaaatca taaacggcga ggactgcagc ccgcactcgc 60
 agccctggca ggcggcactg gtcattgaaa acgaattggt ctgctcgggc gtcctgggtgc 120
 atccgcagtg ggtgctgtca gccacacact gtttcagaa ctcctacacc atcgggctgg 180
 gcctgcacag tcttgaggcc gaccaagagc cagggaagcca gatggtggag gcca 234

<210> 329
 <211> 77
 <212> PRT
 <213> Homo sapien

<400> 329
 Leu Val Ser Gly Ser Cys Ser Gln Ile Ile Asn Gly Glu Asp Cys Ser
 1 5 10 15
 Pro His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu
 20 25 30
 Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Thr
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 His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu
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<212> DNA
<213> Homo sapien
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<211> 2417

<212> DNA

<213> Homo sapien

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<211> 2984
<212> DNA
<213> Homo sapien
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<212> PRT
<213> Homo sapien
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<211> 9
<212> PRT
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Arg	His	Ser	Ser	Phe	Met	Arg	Trp	Met	Trp	Trp	Leu	Phe	Ser	Phe	Phe	
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Ile	Lys	Thr	Pro	Gln	Gln	Gly	Ala	Gln	Thr	Ser	Leu	His	Cys	Ala	Leu	
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<210> 341
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 <212> DNA
 <213> Homo sapien

<400> 341
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 gctgccttac aagtattaaa tattttactt ctttccataa agagtagctc aaaatatgca 180
 attaatattaa taattttctga tgatggtttt atctgcagta atatgtatat catctattag 240
 aatttactta atgaaaaact gaagagaaca aaatttgtaa ccactagcac ttaagtactc 300
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 <213> Homo sapien

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 cctggcaggc aaaccaatgc caagagagtg atggaaacca ttggcaagac tttgttgatg 180
 accaggattg gaattttata aaaatattgt tgatgggaag ttgctaaagg gtgaattact 240
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 aagtgccact gtggaaagag ttctgtgttg tgctgaagtt ctgaagggca gtcaaattca 360
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 agttcttctt ggtttgtgat gtcttttctg ctttccatta attctataaa atagtatggc 540
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<210> 343
 <211> 382
 <212> DNA
 <213> Homo sapien

<400> 343
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<211> 536
<212> DNA
<213> Homo sapien
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<210> 345
<211> 251
<212> DNA
<213> Homo sapien
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<210> 346
<211> 282
<212> DNA
<213> Homo sapien
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<222> (1)...(282)  
<223> n = A,T,C or G
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<210>	347
<211>	201
<212>	DNA

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agcccgcccg	gtgaagctcg	ctgctttccc	tacctcctta	agtgactgcc	aaacgcccac	120
cggctggaat	tgctctgggt	atgatgacag	agaaaaatgat	ctcttcctct	gtgacaccaa	180
cacctgtaaa	tttgatgggg	aatgtttaag	aattggagac	actgtgactt	gcgtctgtca	240
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ctgtgataatt	tgccagtttc	gtgcagaatg	tgacgaagat	gccaggagat	tctgggtgtg	480
gtgtaatatt	gactgttttc	aaaccaaact	caatcccttc	tgcgcttcgt	atgggaaatc	540
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ccacatacct	tgtccggaac	attacaatgg	cttctgcatg	catgggaagt	gtgagcattc	780
tatcaatatg	caggagccat	cttgcaagg	tgatgctgg	tatactggac	aacactgtga	840
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<210> 351
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 <212> DNA
 <213> Homo sapien

<400> 351						
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cattaact	attttaaa	cagwtttgyg	agtcattttac	cacaagctaa	atgtgtacac	180
tatgataaaa	acaaccattg	tattcctgtt	tttctaaaca	gtcctaattt	ctaacactgt	240
atatatcctt	cgacatcaat	gaactttgtt	ttcttttact	ccagtaataa	agtaggcaca	300
gatctgtcca	caacaaactt	gccctctcat	gccttgccct	tcaccatgct	ctgctccagg	360
tcagccccct	tttgccctgt	ttgttttgtc	aaaaacctaa	tctgcttctt	gcttttcttg	420
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<210> 352
 <211> 251
 <212> DNA
 <213> Homo sapien

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caggctgcgt	tccgtcctta	cgatgaagac	cacgatgcag	tttccaaaca	ttgccactac	180
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aataagcaca	a					251

<210> 353
 <211> 436
 <212> DNA
 <213> Homo sapien

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gataaggcaa	cttatacatt	gacaatccaa	atccaatata	tttaaacatt	tgggaaatga	240
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<210> 354
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 <212> DNA
 <213> Homo sapien

<400> 354

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caatatggaa	ggctctaatt	tgcccatatt	tgaataata	attcagcttt	ttgtaataca	660
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<210> 355
 <211> 676
 <212> DNA
 <213> Homo sapien

<400> 355						
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 <211> 574
 <212> DNA
 <213> Homo sapien

<400> 356						
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caagcttccc	atttgtagat	ctcagtgcct	atgagtatct	gacacctgtt	cctctcttca	180
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gatagacggc	acaggagct	cttaggtcag	cgctgctgg	tggaggacat	tcctgagtc	540
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<210> 357
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<212> DNA
<213> Homo sapien

<400> 357

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aagccacaac	caaracttga	ttttatcaac	aaaaaccct	aaatataaac	ggsaaaaaag	180
atagatataa	ttattccagt	ttttttaaaa	cttaaaarat	attccattgc	cgaattaara	240
araarataag	tggttatatg	aaagaagggc	attcaagcac	actaaaraaa	cctgaggkaa	300
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<212> DNA
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<400> 358

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gcatagagta	gggaagctaa	tccagcacag	ggaggtcaca	gagacatccc	taaggaagtg	180
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gtagaacaat	ttgggcagag	ggaaccttat	agaccctaag	gtgggaaggt	tcaaagaact	300
gaaagagagc	tagaacagct	ggagccgttc	tccggtgtaa	agaggagtca	aagagataag	360
attaaagatg	tgaagattaa	gatcttggtg	gcattcaggg	attggcactt	ctacaagaaa	420
tcaactgaagg	gagtaatgtg	acattacttt	tcaacttcagg	atggccattc	taactccagg	480
gggtagactg	gactaggtaa	gactggaggc	aggtagacct	cttctaaggc	ctgcgatagt	540
gaaagacaaa	aataagtggg	gaaatttcagg	ggatagtga	aatcagtagg	acttaatgag	600
caagccagag	gttcctccac	aacaaccagt				630

<210> 359
<211> 620
<212> DNA
<213> Homo sapien

<400> 359

acagcattcc	aaaatataca	tctagagact	aarrgtaa	gctctatagt	gaagaagtaa	60
taattaaaaa	atgctactaa	tatagaaaat	ttataatcag	aaaaataaat	attcaggagg	120
ctcaccagaa	gaataaagtg	ctctgccagt	tattaaagga	ttactgctgg	tgaattaaat	180
atggcattcc	ccaaggga	tagagagatt	cttctggatt	atgttcaata	tttatttcac	240
aggattaact	gttttaggaa	cagatatata	gcttcgccac	ggaagagatg	gacaaagcac	300
aaagacaaca	tgatacctta	ggaagcaaca	ctaccctttc	aggcataaaa	tttgagaaaa	360
tgcaacatta	tgcttcattg	ataatatgta	gaaagaaggt	ctgatgaaaa	tgacatcctt	420
aatgtaagat	aactttataa	gaattctggg	tcaaataaaa	ttctttgaag	aaaacatcca	480
aatgtcattg	acttatcaaa	tactatcttg	gcatataacc	tatgaaggca	aaactaaaca	540
aacaaaaagc	tcacacaaa	caaaaccatc	aacttatatt	gtattctata	acatacgaga	600
ctgtaaagat	gtgacagtgt					620

<210> 360
<211> 431
<212> DNA
<213> Homo sapien

<400> 360


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aaaaaaaaa agccagaaca acatgtgata gataaatatga ttggctgcac acttccagac      60
tgatgaatga tgaacgtgat ggactattgt atggagcaca tcttcagcaa gagggggaaa      120
tactcatcat ttttggccag cagttgtttg atcaccaaac atcatgccag aatactcagc      180
aaaccttctt agctcttgag aagtcaaagt ccgggggaat ttattcctgg caattttaat      240
tggactcctt atgtgagagc agcggctacc cagctggggt ggtggagcga acccgtcact      300
agtggacatg cagtggcaga gtccttggtg accacctaga ggaatacaca ggcacatgtg      360
tgatgccaaag cgtgacacct gtagcactca aatttgtctt gtttttgtct ttcggtgtgt      420
agattcttag t                                     431

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<210> 361
<211> 351
<212> DNA
<213> Homo sapien

```

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<400> 361
acactgattt ccgatcaaaa gaatcatcat ctttaccttg acttttcagg gaattactga      60
actttcttct cagaagatag ggcacagcca ttgccttggc ctcaactgaa gggctctgcat      120
ttgggtcctc tgggtctcttg ccaagtttcc cagccactcg agggagaaat atcgggaggt      180
ttgacttctt ccggggcttt cccgagggct tcacogtgag ccctgcggcc ctcagggctg      240
caatcctgga ttcaatgtct gaaacctcgc tctctgcctg ctggacttct gaggccgtca      300
ctgccactct gtcctccagc tctgacagct cctcatctgt ggtcctgttg t                                     351

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```

<210> 362
<211> 463
<212> DNA
<213> Homo sapien

```

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<400> 362
acttcatcag gccataatgg gtgectcccg tgagaatcca agcacctttg gactgcgcga      60
tgtagatgag ccggtgaag atcttgcgca tgcgcggctt cagggcgaag ttcttggcgc      120
ccccggtcac agaaatgacc aggttgggtg ttttcagggt ccagtgtctg gtcagcagct      180
cgtaaaggat ttccgcgtcc gtgtcgcagg acagacgtat atacttcctt ttcttcccca      240
gtgtctcaaa ctgaatatcc ccaaaggcgt cggtaggaaa ttcttgggtg tgtttcttgt      300
agttccattt ctcaacttgg ttgatctggg tgccttccat gtgctggctc tgggcatagc      360
cacacttgca cacattctcc ctgataagca cgatggtgtg gacaggaagg aaggatttca      420
ttgagcctgc ttatggaaac tggatttgtt agcttaataa gac                                     463

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```

<210> 363
<211> 653
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(653)
<223> n = A,T,C or G

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<400> 363
acccccgagt ncctgnctgg catactngna acgaccaacg acacacccaa gctcggcctc      60
ctcttgngna ttctgggtga catcttcatg aatggcaacc gtgccagwga ggctgtcctc      120
tgggaggcac tacgcaagat gggactgcgt cctgggggtg gacatcctct ccttgagat      180
ctaacgaaac ttctcaccta tgagttgtaa agcagaaata cctgnactac agacgagtgc      240
ccaacagcaa cccccggaa gtatgagttc ctctrgggcc tccgttccta ccatgagasc      300
tagcaagatg naagtgttga gantcattgc agaggttcag aaaagagacc cntcgtgact      360

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ggtctgcaca	gttcatggag	gctgcagatg	aggccttggg	tgctctggat	gctgctgcag	420
ctgaggccga	agcccgggct	gaagcaagaa	cccgcattgg	aattggagat	gaggctgtgt	480
ntgggcccctg	gagctgggat	gacattgagt	ttgagctgct	gacctgggat	gaggaaggag	540
atthttggaga	tccttggtcc	agaattccat	ttaccttctg	ggccagatac	caccagaatg	600
cccgtccag	attccctcag	acctttgccc	gtcccattat	tggtcstggt	ggt	653

<210> 364
 <211> 401
 <212> DNA
 <213> Homo sapien

<400> 364						
actagaggaa	agacgttaaa	ccactctact	accacttgtg	gaactctcaa	agggtaaatg	60
acaaagccaa	tgaatgactc	taaaaacaat	atttacattt	aatggtttgt	agacaataaa	120
aaaacaaggt	ggatagatct	agaattgtaa	cattttaaga	aaaccatagc	atthtgacaga	180
tgagaaagct	caattataga	tgcaaagtta	taactaaact	actatagtag	taaagaaata	240
cattttcacac	ccttcatata	aattcactat	cttggttga	ggcactccat	aaaatgtatc	300
acgtgcatag	taaatcttta	tatttgctat	ggcgttgac	tagaggactt	ggactgcaac	360
aagtggatgc	gcggaaaatg	aaatcttctt	caatagccca	g		401

<210> 365
 <211> 356
 <212> DNA
 <213> Homo sapien

<400> 365						
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atgtttcagt	gctagagcgt	aggaatagac	cctggcgctc	actgtgagat	gttcttcagc	120
taccagagca	tcaagtctct	gcagcaggtc	attcttgggt	aaagaaatga	cttcacaaaa	180
ctctccatcc	cctggctttg	gcttcggcct	tgcttttctg	gcatcatctc	cgtaaatggt	240
gactgtcacg	atgtgtatag	tacagtttga	caagcctggg	tccatacaga	ccgctggaga	300
acattcggca	atgtcccctt	tgtagccagt	ttcttctctg	agctcccgga	gagcag	356

<210> 366
 <211> 1851
 <212> DNA
 <213> Homo sapien

<400> 366						
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cttccgtgtt	cttcattctt	cttcaatagc	cataaatctt	ctagctctgg	ctggctgttt	120
tcaattcctt	taagcctttg	tgactcttcc	tctgatgtca	gctttaagtc	ttgttctgga	180
ttgctgtttt	cagaagagat	ttttaacatc	tgthtttctt	tgtagtcaga	aagtaactgg	240
caaattacat	gatgatgact	agaaacagca	tactctctgg	ccgtctttcc	agatcttgag	300
aagatacatc	aacattttgc	tcaagtagag	ggctgactat	acttgctgat	ccacaacata	360
cagcaagtat	gagagcagtt	cttccatata	tatccagcgc	atthaaattc	gctthtttct	420
tgattaaaaa	tttcaccact	tgctgttttt	gtcatgtat	accaagtagc	agtgggtgta	480
ggccatgctt	gtthtttgat	tcgatatacag	caccgtataa	gagcagtgct	ttggccatta	540
atthtatctt	attgtagaca	gcatagtgta	gagtggattt	tccatactca	tctggaatat	600
ttggatcagt	gccatgttcc	agcaacatta	acgcacattc	atcttctctg	cattgtacgg	660
cctttgtcag	agctgtcctc	tttttgttgt	caaggacatt	aagttgacat	cgtctgtcca	720
gcacgagttt	tactacttct	gaattcccat	tgccagaggc	cagatgtaga	gcagctctct	780
tttgcttgct	cctcttggtc	acatccgtgt	ccctgagcat	gacgatgaga	tcctttctgg	840
ggactttacc	ccaccaggca	gctctgtgga	gcttgtccag	atcttctcca	tggaagtggt	900


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<210> 367
<211> 668
<212> DNA
<213> Homo sapien
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```
<210> 368
<211> 1512
<212> DNA
<213> Homo sapien
```

<400> 368						
ggggtcgccca	ggggsgcgt	gggctttcct	cgggtgggtg	tgggttttcc	ctgggtgggg	60
tgggctgggc	trgaatccc	tgctggggtt	ggcaggtttt	ggctgggatt	gacttttytc	120
ttcaaacaga	ttggaaccc	ggagttacct	gctagttggt	gaaactggtt	ggtagacgcg	180
atctgttggc	tactactggc	ttctcctggc	tgtaaaaagc	agatggtggt	tgaggttgat	240
tccatgcccg	ctgcttcttc	tgtgaagaag	ccatttggtc	tcaggagcaa	gatgggcaag	300
tggtgctgcc	gttgcttccc	ctgctgcagg	gagagcggca	agagcaacgt	gggcacttct	360
ggagaccacg	acgactctgc	tatgaagaca	ctcaggagca	agatgggcaa	gtggtgccgc	420
cactgcttcc	cctgctgcag	ggggagtggc	aagagcaacg	tgggcgcttc	tggagaccac	480
gacgaytctg	ctatgaagac	actcaggaac	aagatgggca	agtgtgtctg	ccactgcttc	540
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gccttcatgg	agcccaggtg	ccacgtccgt	ggagaagatc	tggacaagct	ccacagagct	660
gcctggtggg	qtaaaqtccc	cagaaaaggt	ctcatcgtca	tgctcagggg	cactgacgtg	720


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<210> 369
<211> 1853
<212> DNA
<213> Homo sapien
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<210> 370

<211> 2184
 <212> DNA
 <213> Homo sapien

<400> 370

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tgtgtctgtt	gagatgctta	tgtgactttg	cttttaattc	tgtttatgtg	attatcacat	240
ttattgactt	gcctgtgtta	gaccggaaga	gctgggggtg	ttctcaggag	ccaccgtgtg	300
ctgcggcagc	ttcgggataa	cttgaggctg	catcactggg	gaagaaacac	aytctgtcc	360
gtggcgctga	tggctgagga	cagagcttca	gtgtggcttc	tctgcgactg	gcttcttcgg	420
ggagttcttc	cttcatagtt	catccatatg	gctccagagg	aaaattatat	tattttgtta	480
tggatgaaga	gtattacgtt	gtgcagatat	actgcagtgt	cttcatctct	tgatgtgtga	540
ttgggtaggt	tccaccatgt	tgccgcagat	gacatgattt	cagtacctgt	gtctggctga	600
aaagtgtttg	tttgtgaatg	gatattgtgg	tttctggatc	tcacctctct	tgggtggaca	660
gctttctcca	ccttgctgga	agtgacctgc	tgtccagaag	tttgatggct	gaggagtata	720
ccatcgtgca	tgcactcttc	atttctctga	tttcttcctc	cctggatgga	cagggggagc	780
ggcaagagca	acgtgggcac	ttctggagac	cacaacgact	cctctgtgaa	gacgcttggg	840
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acgtggtcgc	ttggggagac	tacgatgaca	gcgccttcat	ggatcccagg	taccacgtcc	960
atggagaaga	tctggacaag	ctccacagag	ctgcctggtg	gggtaaagtc	cccagaaagg	1020
atctcatcgt	catgctcagg	gacacggatg	tgaacaagag	ggacaagcaa	aagaggactg	1080
ctctacatct	ggcctctgcc	aatgggaatt	cagaagtagt	aaaactcgtg	ctggacagac	1140
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atgagtatgg	aaataccact	ctacactatg	ctgtctacaa	tgaagataaa	ttaatggcca	1320
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gatcagcaag	tatagtcagc	cctctacttg	agcaaaatgt	tgatgtatct	tctcaagatc	1560
tggaaagacg	gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagt tact	1620
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taataatatt	agatagtccc	aaatgaaatw	acctatgaga	ctaggctttg	agaatcaata	1860
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cgggtgaaacc	ccatctctac	taaaaataca	aaaacttagc	tgggtgtggg	ggcgggtgcc	2040
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ctcaaaaaaa	aaaaaaaaaa	aaaa				2184

<210> 371
 <211> 1855
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1855)
 <223> n = A,T,C or G

<400> 371

tgcacgcac	ggccagtgct	tgtgccacgt	acactgacgc	cccctgagat	gtgcacgccg	60
cacgcgcacg	ttgcacgcgc	ggcagcggct	tggctggctt	gtaacggctt	gcacgcgcac	120
gccgcccccg	cataaccgtc	agactggcct	gtaacggctt	gcaggcgcac	gccgcacgcg	180
cgtaacggct	tggctgccct	gtaacggctt	gcacgtgcat	gctgcacgcg	cgtaacggc	240
ttggctggca	tgtagccgct	tggcttggct	ttgcattytt	tgctkggctk	ggcgttgkty	300
tcttgattg	acgcttcctc	cttgatkgac	cgtttcctcc	ttggatkgac	gtttcytyty	360
tcgcgttcc	ttgctggact	tgacctttty	tctgctgggt	ttggcattcc	tttgggggtg	420
gctgggtgtt	ttctccgggg	gggkktgccc	ttcctggggg	gggcgtgggk	cgccccagg	480
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gtaacntgct	agttgggtgaa	actgggtggg	agacgcgac	tgctgggtact	actgtttctc	660
ctggctgtta	aaagcagatg	gtggctgagg	ttgattcaat	gccggctgct	tcttctgtga	720
agaagccatt	tgggtctcagg	agcaagatgg	gcaagtgggtg	cgccactgct	tcccctgctg	780
cagggggagc	ggcaagagca	acgtgggcac	ttctggagac	cacaacgact	cctctgtgaa	840
gacgcttggg	agcaagaggt	gcaagtgggtg	ctgcccactg	cttccccctgc	tgcaagggag	900
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agggccagtc	ttccgtatct	ggaagctcaa	gcataaactg	aatgaaaata	ttttgaaatg	1500
acctaattat	ctaagacttt	atttttaata	ttgttatctt	caaagaagca	ttagagggtg	1560
cagttttttt	tttttaaatg	cacttctggt	aaatactttt	gttgaaaaca	ctgaatttgt	1620
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acatgtttca	gtgaatagag	atcctgtctc	tttggcaagt	tcctaaaaaa	cagtaataga	1800
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<210> 372
 <211> 1059
 <212> DNA
 <213> Homo sapien

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gggtcaagtg	gtgctgccc	ctgcttcccc	tgctgcagg	gagcggcaag	agcaacgtgg	120
gcgcttgrrg	agactmcgat	gacagygcct	tcatggagcc	caggtaccac	gtccgtggag	180
aagatctgga	caagctccac	agagctgccc	tgggtgggta	aagtccccag	aaaggatctc	240
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catctggcct	ctgccaatgg	gaattcagaa	gtagtataaac	tcstgctgga	cagacgatgt	360
caacttaatg	tccttgacaa	caaaaagagg	acagctctga	yaaaggccgt	acaatgccag	420
gaagatgaat	gtgcgttaat	gttgctggaa	catggcactg	atccaaatat	tccagatgag	480
tatggaaata	ccactctrca	ctaygctrct	tayaatgaag	ataaattaat	ggccaaagca	540
ctgctcttat	ayggtgctga	tatcgaatca	aaaaacaagg	tatagatcta	ctaattttat	600
cttcaaaaata	ctgaaatgca	ttcattttta	cattgacgtg	tgtaaggggc	agtcttccgt	660
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ctttatttta	aatattgtta	ttttcaaaaga	agcatttagag	ggtagagttt	ttttttttta	780
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agagatcctg	ctccttttggc	aagtttcctaa	aaaacagtaa	tagatacgag	gtgatgcgcc	1020
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<210> 373
 <211> 1155
 <212> DNA
 <213> Homo sapien

<400> 373

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agcaacgtgg	gcacttctgg	agaccacgac	gactctgcta	tgaagacact	caggagcaag	180
atgggcaagt	ggtgccgcca	ctgcttcccc	tgctgcaggg	ggagtggcaa	gagcaacgtg	240
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tggtgctgcc	actgcttccc	ctgctgcagg	gggagcggca	agagcaaggt	gggcgcttgg	360
ggagactacg	atgacagtgc	cttcatggag	cccaggtaac	acgtccgtgg	agaagatctg	420
gacaagctcc	acagagctgc	ctggtggggg	aaagtcccca	gaaaggatct	catcgtcatg	480
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 <212> DNA
 <213> Homo sapien

<400> 374

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<211> 2040

<212> DNA

<213> Homo sapien

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 <213> Homo sapien

<400> 376

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 35 40 45
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 50 55 60
 Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
 65 70 75 80
 Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
 85 90 95
 Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
 100 105 110
 His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
 115 120 125
 Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
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 145 150 155 160
 Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
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 Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
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 Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
 195 200 205
 Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
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 Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
 225 230 235 240
 Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
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 Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
 260 265 270
 Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
 275 280 285
 Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
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CCDS:100000.1

<400> 377

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			165						170					175		
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			180				185						190			
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr	
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Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys	
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Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val	
	275						280					285				
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Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu	
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Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val	
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Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile	
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Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu	
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Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu	
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Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser	Asp	Tyr	Lys	Glu	
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Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	
			485						490				495			
Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu	
			500					505					510			

Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys
 515 520 525
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly
 530 535 540
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 Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr
 565 570 575
 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln
 580 585 590
 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln
 595 600 605
 Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys
 610 615 620
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 <211> 671
 <212> PRT
 <213> Homo sapien

<400> 380
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 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
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 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
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 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
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 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
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225					230				235				240				
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Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly		
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Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val		
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Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu		
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				530					535				540				
His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn	Leu	Thr	Asn	Gly	Ala		
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				565					570				575				
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Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe	Cys	Glu	Glu	Gln	Asn		
				595					600				605				
Thr	Gly	Ile	Leu	His	Asp	Glu	Ile	Leu	Ile	His	Glu	Glu	Lys	Gln	Ile		
				610					615				620				
Glu	Val	Val	Glu	Lys	Met	Asn	Ser	Glu	Leu	Ser	Leu	Ser	Cys	Lys	Lys		
625					630					635				640			
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665

670

<210> 381
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 381

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ccaatatccc aggagaagca ttggggaggt gggggcaggt gaaggacca ggactcacac      180
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<210> 382
 <211> 3279
 <212> DNA
 <213> Homo sapiens

<400> 382

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cactgggagg ggacatcctg cagaaggtag gagtgcagaa acacccgctg caggggaggg      180
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gggcctggag ggcgtgagga ggagcgaggg ggctgcattg ctggagttag ggatcagggg      300
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gccacaggag gacactgctt ttctctgag gagtgcaggag ctgtggatgg tgctggacag      420
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gcattaccgg aagtggatca aggacaccat cgcagccaac ccctgagtgc ccctgtccca      1260
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acacacagca aggttgacgc tgtaaacata gccacagctg tcctgggggc actgggaagc      1740
ctagataagg ccgtgagcag aaagaagggg aggatcctcc tatgttgttg aaggagggac      1800
tagggggaga aactgaaagc tgattaatta caggaggttt gttcaggtcc cccaaaccac      1860
cgtcagattt gatgatttcc tagcaggact tacagaaata aagagctatc atgctgtggt      1920
ttattatggt ttgttacatt gataggatag atactgaaat cagcaacaaa aacagatgta      1980
tagattagag tgtggagaaa acagaggaaa acttgacgtt acgaagactg gcaacttggc      2040

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Ala Leu Glu Arg Gly His Leu Val Arg Glu
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<210> 384
<211> 557
<212> DNA
<213> Homo sapiens

<400> 384
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ggggaagggt cccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggg 180
tctgcctcct ggccaagcag gctggtttgc aagaatgaaa tgaatgattc tacagctagg 240
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ccttcttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaagt 480
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aaaaaaaaa aaaaaaa 557

<210> 385
<211> 337
<212> DNA
<213> Homo sapiens

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tctcaaagcc atctgctgtc ttcgagtacg gacacatcat cactcctgca ttgttgatca 180
aaacgtggag gtgcttttcc tcagctaaga agcccttagc aaaagctcga atagacttag 240
tatcagacag gtccagtttc cgcaccaaca cctgctggtt ccctgtcgtg gtctggatct 300
ctttggccac caattcccc ttttccacat cccggca 337

<210> 386
<211> 300
<212> DNA
<213> Homo sapiens

<400> 386
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gcccgctcgcg ccagaggggt gggcgcgggg ctgcctctac cggctggcgg ctgtaactca 120
gcgaccttgg ccgaaggct ctagcaagga cccaccgacc ccagccgcgg cggcggcggc 180
gcggactttg cccggtgtgt ggggcggagc ggactgcgtg tccgcggacg ggcagcgaag 240
atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300

<210> 387
<211> 537
<212> DNA
<213> Homo sapiens

<400> 387
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<210> 388
<211> 520
<212> DNA
<213> Homo sapiens
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<210> 389
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<212> DNA
<213> Homo sapiens
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<210> 390
<211> 221
<212> DNA
<213> Homo sapiens
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gctctangag	tctgancnga	ntcgttgcc	cantntgaca	naaggaaagg	cggagcttat	180	
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<210> 391
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 <212> DNA
 <213> Homo sapiens

<220>
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<400> 391
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 tagccagggc actgctgcca acagccagtc cnnataccat catgtnaccc ggtgngctct 180
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<210> 392
 <211> 277
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n = A,T,C or G

<400> 392
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 antaccanga accgncatgn cttanaaach ncctggtttn tgggttnntc aatgactgca 180
 tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggcgg 240
 ctgaggatac agcgccgcgt cctgtgttgc tggggaa 277

<210> 393
 <211> 566
 <212> DNA
 <213> Homo sapiens

<400> 393
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 gagaaggtct agtttgtcca tcagcattat catgatataca ggactgggta cttgggttaag 240
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 ggggtggttt caaaagtaga aatgtcctgt attccgatga tcatcctgta aacattttat 360
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 ttctgcctca atgtttactg tgcccttgggt tttgctagtt tgtgttgggt aaaaaaaaaa 480
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 ttttgccctat caaaaaaaaaa aaaaaa 566

<210> 394

<211> 384
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n = A,T,C or G

<400> 394
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 gcaggaggac cgggctttaa ggagttttaa gctgagtgtc actgtagacc ccaaatacca 180
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 tgagcagatg gtttctgagg acgt 384

<210> 395
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 395
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<210> 396
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(403)
 <223> n = A,T,C or G

<400> 396
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 gtttagggga gggagtgagg gataaaagaa ggaaaaaaag aagagtgaga aaacctatct 360
 atcaaagcag gtgctatcac tcaatgttag gccctgctct ttt 403

<210> 397
 <211> 100
 <212> DNA

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 gtacatgtac atgtatgaaa tttcctttctc ttaccgaact ctctccacac atcacaagg 120
 caaagaacca cacgcttaga agggtaagag ggcaccctat gaaatgaaat ggtgatttct 180


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<210> 404
<211> 225
<212> DNA
<213> Homo sapiens
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<210> 405
<211> 334
<212> DNA
<213> Homo sapiens
```

<400> 405						
gagctgttat	actgtgagtt	ctactaggaa	atcatcaaat	ctgagggttg	tctggaggac	60
ttcaatacac	ctcccccat	agtgaatcag	cttcacaggg	gtccagtgcc	tctccttact	120
tcatccccat	cccatgccaa	aggaagaccc	tccctccttg	gtcacagcc	ttctctaggc	180
ttcccagctgc	ctccaggaca	gagttgggta	tggtttcagc	tccatccttg	ctgtgagtg	240
ctggtgcggg	tgtgcctcca	gcttctgctc	agtgcttcat	ggacagtgtc	cagcccatgt	300
cactctccac	tctctcann	tggtatccac	ccct			334

```
<210> 406
<211> 216
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G
```

<400>	406						
tttcatacct	aatgagggag	ttganatnac	atnnaaccag	gaaatgcatg	gatctcaang	60	
gaaacaaaca	cccaataaac	tcggagtggc	agactgacaa	ctgtgagaca	tgcaattgct	120	
acnaacacaca	aatttnatgt	tgcacccttg	tttctacacc	tgtgggttat	gacaaagaca	180	
aatqccaaaq	aattntcaag	aaggaqqact	qccant			216	

<210> 407
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 407
 gctgacttgc tagtatcatc tgcattcatt gaagcacaag aacttcatgc cttgactcat 60
 gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120
 gtacaacatt gcacccagtg tcagattcta cacctggcca ctcaggaagc aagagttaat 180
 cccagaggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240
 ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300
 tgccagacag gagaaaagtct tcccatgtta aaagacattt attatcttgt ttcctgtca 360
 tgggagttcc agaaaaagt ttccacagaca atggggcagg ttctgtagta aag 413

<210> 408
 <211> 183
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(183)
 <223> n = A,T,C or G

<400> 408
 ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtctt ttgnnattaa 60
 tnccttaacta gttaatcctt aaagggctan ntaatcctta actagtcctt ccattgtgag 120
 cattatcctt ccagtattcn ccttctnttt tatttactcc ttcttggtta cccatgtact 180
 ntt 183

<210> 409
 <211> 250
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(250)
 <223> n = A,T,C or G

<400> 409
 cccacgcatg ataagctctt tatttctgta agtcctgcta ggaaatcatc aaatctgacg 60
 gtggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
 gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
 gcttcccagt gccccagga cagcgtgggc tatgtttaca gcgcntcctt gctggggggg 240
 ggcctatgc 250

<210> 410
 <211> 306
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

151


```

<400> 413
aactcttaca atccaagtga ctcatctgtg tgcttgaatc ctttccactg tctcatctcc 60
ctcatccaag tttctagtag cttctctttg ttgtgaagga taatcaaact gaacaacaaa 120
aagtttactc tcctcatttg gaacctaaaa actctcttct tcctgggtct gagggctcca 180
agaatccttg aatcanttct cagatcattg gggacaccan atcaggaacc t 231

```

```

<210> 414
<211> 234
<212> DNA
<213> Homo sapiens

```

```

<400> 414
actgtccatg aagcactgag cagaagctgg aggcacaacg caccagacac tcacagcaag 60
gatggagctg aaaacataac ccactctgtc ctggaggcac tgggaagcct agagaaggct 120
gtgagccaag gagggagggt cttccttttg catgggatgg ggatgaagta aggagaggga 180
ctggaccccc tggaagctga ttcactatgg ggggagggtg attgaagtcc tcca 234

```

```

<210> 415
<211> 217
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(217)
<223> n = A,T,C or G

```

```

<400> 415
gcataggatt aagactgagt atcttttcta cattctttta acttttctaag gggcacttct 60
caaaacacag accaggtagc aaatctccac tgctctaagg ntctcaccac cacttttctca 120
cacctagcaa tagtagaatt cagtcctact tctgaggcca gaagaatggg tcagaaaaaat 180
antggattat aaaaaataac aattaagaaa aataatc 217

```

```

<210> 416
<211> 213
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(213)
<223> n = A,T,C or G

```

```

<400> 416
atgcataatnt aaagganact gcctcgcttt tagaagacat ctggngctgct ctctgcatga 60
ggcacagcag taaagctctt tgattcccag aatcaagaac tctccccttc agactattac 120
cgaatgcaag gtggttaatt gaaggccact aattgatgct caaatagaag gatattgact 180
atattggaac agatggagtc tctactacaa aag 213

```

```

<210> 417
<211> 303
<212> DNA
<213> Homo sapiens

```


<220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

<400> 417
 nagtcttcag gcccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60
 gtgggaaagg ctttactctg agttcaaata ttcaagccca tcagagagtc cacactggag 120
 agaagccata caaatgcaat gagtgtggga agagcttcag gagggattcc cattatcaag 180
 ttcatttagt ggtccacaca ggagagaaac cctataaatg tgagatatgt gggaagggct 240
 tcantcaaag ttcgtatctt caaatccatc ngaaggncca cagtatanan aaacctttta 300
 agt 303

<210> 418
 <211> 328
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(328)
 <223> n = A,T,C or G

<400> 418
 tttttggcgg tgggtggggca gggacgggac angagtctca ctctgttgcc caggctggag 60
 tgcacaggca tgatctcggc tcactacaac ccctgctcct catgtccaag cgattcttgt 120
 gcctcagcct tccctgtagc tagaattaca ggcacatgcc accacaccca gctagttttt 180
 gtatttttag tagagacagg gtttcacat gttggccagg ctgggtctca actcctnacc 240
 tcagnggtca ggctgggtct aaactcctga cctcaagtga tctgcccacc tcagcctccc 300
 aaagtgctan gattacaggc cgtgagcc 328

<210> 419
 <211> 389
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(389)
 <223> n = A,T,C or G

<400> 419
 ctcctcaag acggcctgtg gtccgcctcc cggcaaccaa gaagcctgca gtgccatatt 60
 acccctgagc catggactgg agcctgaaag gcagcgtaca ccctgctcct gatcttgctg 120
 cttgtttcct ctctgtggct ccattcatag cacagttgtt gcaactgaggc ttgtgcaggc 180
 cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggc gtgccaggca 240
 ccggttctcc agccaccaac ctactcgtc cccgcaaatg gcacatcagt tcttctaccc 300
 taaaaggtagg accaaagggc atctgctttt ctgaagtctt ctgctctatc agccatcacg 360
 tggcagccac tcnggctgtg tcgacgcg 389

<210> 420
 <211> 408
 <212> DNA

TTGGGAAAGG CTTTACTCTG AGTTCAAATA TTCAAGCCCA TCAGAGAGTC CACTACTGGAG

<213> Homo sapiens

<400> 420

```
gttcctccta actcctgcc aaaacagctc tctcaacat gagagctgca cccctcctcc 60
tgccagggc agcaagcctt agccttggt tctgtttct gcttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
gtccattga cacctttccc actgacccca taaaggaatc ctcattggca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat ggtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgtctatg acaaacctgg caagcccg 408
```

<210> 421

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(352)

<223> n = A,T,C or G

<400> 421

```
gctcaaaaat ctttttactg atnggcattg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacaggtct tttttgggtc cttcttctcc accacnatac atttgacgtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacaggtg tagaaacaag 240
ggtgcaacat gaaattttctg tttcgtagca agtgcatgtc tcacaagttg gcangtctgc 300
cactccgagt ttattgggtg tttgtttcct ttgagatcca tgcatttcct gg 352
```

<210> 422

<211> 337

<212> DNA

<213> Homo sapiens

<400> 422

```
atgccaccat gctggcaatg cagcggggcg tcgaaggcct gcatatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgcccgaagt tgccgatgcc agccgaagcg gtggtcaagg 120
gcgatagcaa ggtgccggcg atcgcgggcg cgtcaatcct ggccaaggct agccgtgatc 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcggcggg cataagggtc 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacgccg attcaccgac 300
gcttcttccg ccgggtacggc tggcctatga aaattat 337
```

<210> 423

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(310)

<223> n = A,T,C or G

<400> 423

```
gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
```

155


```

aggagaatga ggccctggcct gggagccctg tgcctactan aagcncatta gattatccat 120
tactgacag aacaggctctt ttttgggtcc ttcttctcca ccacgatata cttgcagtcc 180
tccttcttga agattctttg gcagttgtct ttgtcataac ccacagggtg anaaacaagg 240
gtgcaacatg aaatttctgt ttcgtagcaa gtgcatgtct cacagttgtc aagtctgccc 300
tccgagttta                                     310

```

```

<210> 424
<211> 370
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(370)
<223> n = A,T,C or G

```

```

<400> 424
gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60
ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120
cactgacaga acaggctctt tttgggtcct tcttctccac cacgatatac ttgcagtcct 180
ccttcttgaa gattcttttg cagttgtctt tgtcataacc cacaggtgta gaaacatcct 240
ggttgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300
cacgaagggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360
tccgtcgacg                                     370

```

```

<210> 425
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

```

```

<400> 425
aattgctatn ntttattttg ccaactcaaaa taattaccaa aaaaaaaaaa tnttaaatga 60
taacaacnca acatcaagg n anaanaaca ggaatggntg actntgcata aatnggccga 120
anattatcca ttatnttaag gggtgacttc aggntacagc acacagacaa acatgcccag 180
gaggntntca ggaccgctcg atgtnttntg aggagg                                     216

```

```

<210> 426
<211> 596
<212> DNA
<213> Homo sapiens

```

```

<400> 426
cttccagtga ggataaccct gttgccccgg gccgagggtc tccattaggc tctgattgat 60
tggcagtcag tgatggaagg gtgttctgat cattccgact gccccaaggg tcgctggcca 120
gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatgggtga 180
gctgtccttg tattttgatt aacctaattg ccttcccagc acgactcgga ttcagctgga 240
gacatcacgg caacttttaa tgaaatgatt tgaagggccca ttaagaggca cttcccgtta 300
ttaggcagtt catctgcact gataacttct tggcagctga gctggtcgga gctgtggccc 360
aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420

```


ggtggatggc cttttcagct ttaacccaat ttgcactgcc ttggaagtgt agccaggaga 480
 atacactcat atactcgtgg gcttagaggc cacagcagat gtcattgggc tactgcctga 540
 gtcccgtgg tcccatccca ggaccttcca tcggcgagta cctgggagcc cgtgct 596

<210> 427
 <211> 107
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(107)
 <223> n = A,T,C or G

<400> 427
 gaagaattca agttaggttt attcaaaggg cttacngaga atcctanacc caggncccag 60
 cccgggagca gccttanaga gctcctgttt gactgcccgg ctcagng 107

<210> 428
 <211> 38
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(38)
 <223> n = A,T,C or G

<400> 428
 gaacttcna anaangactt tattcactat ttacatt 38

<210> 429
 <211> 544
 <212> DNA
 <213> Homo sapiens

<400> 429
 ctttgctgga cggaataaaa gtggacgcaa gcatgacctc ctgatgaggg cgctgcattt 60
 attgaagagc ggctgcagcc ctgcggttca gattaaaatc cgagaattgt atagacgccg 120
 atatccacga actcctgaag gactttctga tttatccaca atcaaatcat cggttttcag 180
 tttggatggg ggctcatcac ctgtagaacc tgacttggcc gtggctggaa tccactcgtt 240
 gccttccact tcagttacac ctcaactcacc atcctctcct gttggttctg tgctgcttca 300
 agatactaag cccacatttg agatgcagca gccatctccc ccaattcctc ctgtccatcc 360
 tgatgtgcag ttaaaaaatc tgccctttta tgatgtcctt gatgttctca tcaagcccac 420
 gagtttagtt caaagcagta ttcagcgatt tcaagagaag ttttttattt ttgctttgac 480
 acctcaacaa gttagagaga tatgcatatc cagggatttt ttgccagggtg gtaggagaga 540
 ttat 544

<210> 430
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>

00995914.6390

<221> misc_feature
 <222> (1)...(507)
 <223> n = A,T,C or G

<400> 430
 cttatcncaa tggggctccc aaacttggct gtgcagtggg aactccgggg gaattttgaa 60
 gaacactgac acccatcttc caccocgaca ctctgattta attgggctgc agtgagaaca 120
 gagcatcaat ttaaaaagct gcccagaatg ttntcctggg cagcgttggt atctttgccn 180
 ccttcgtgac tttatgcaat gcatcatgct atttcatacc taatgaggga gttccaggag 240
 attcaaccag gatgtttcta cncctgtggg ttatgacaaa gacaactgcc aaagaatntt 300
 caagaaggag gactgcaagt atatcgtggg ggagaagaag gacccaaaaa agacctgttc 360
 tgtcagttaa tggataatct aatgtgcttc tagtaggcac agggctccca ggccaggcct 420
 cattctctc tggcctctaa tagtcaatga ttgtgtagcc atgcctatca gtaaaaagat 480
 ttttgagcaa aaaaaaaaaa aaaaaaa 507

<210> 431
 <211> 392
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(392)
 <223> n = A,T,C or G

<400> 431
 gaaaattcag aatggataaa aacaaatgaa gtacaaaata tttcagattt acatagcgat 60
 aaacaagaaa gcacttatca ggaggactta caaatggaag tacactctan aaccatcatc 120
 tatcatggct aaatgtgaga ttagcacagc tgtattattt gtacattgca aacacctaga 180
 aagagatggg aaacaaaatc ccaggagttt tgtgtgtgga gtcctgggtt ttccaacaga 240
 catcatcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300
 acaaaagtga tgttgtagg taaaatgtac aacttctgga tctatgcaga cattgaaggt 360
 gcaatgagtc tggcttttac tctgctgttt ct 392

<210> 432
 <211> 387
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(387)
 <223> n = A,T,C or G

<400> 432
 ggtatccnta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60
 aaatgcaagg caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg 120
 ngtagtccaa gctctcgga gtccagccac tngaaacat gctcccttta gattaacctc 180
 gtggacnctn ttgttgnatt gtctgaactg tagngccctg tattttgctt ctgtctgnga 240
 attctgttgc ttctggggca tttccttgng atgcagagga ccaccacaca gatgacagca 300
 atctgaattg ntccaatcac agctgcgatt aagacatact gaaatcgtag aggaccggga 360
 acaacgtata gaacactgga gtccttt 387

<210> 433


```
<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G
```

```
<210> 434
<211> 484
<212> DNA
<213> Homo sapiens
```

```
<210> 435
<211> 424
<212> DNA
<213> Homo sapiens
```

```
<210> 436
<211> 667
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc feature
```


<223> n = A, T, C or G

accttgggaa	nactctcaca	atataaagg	tcgtagactt	tactccaaat	tccaaaaaagg	60
tcctggccat	gtaatcctga	aagttttccc	aaggtagcta	taaaatcctt	ataagggtgc	120
agcctcttct	ggaattcctc	tgatttcaaa	gtctcactct	caagttcttg	aaaacgaggg	180
cagttctctga	aaggcaggtat	tagcaactga	tcttcagaaa	gaggaactgt	gtgcaccggg	240
atgggctgcc	agagtaggat	aggattccag	atgtgcacac	cttctggggg	aaacagggct	300
gccagggttg	tcatagcact	catcaaagtc	cggctaacgt	ctgtgctctg	aatataaaacc	360
tgttcatgtt	tataggactc	attcaagaat	tttctatatc	tctttcttat	atactctcca	420
agttcataat	gctgctccat	gccagctgg	gtgagttggc	caaatccttg	tggccatgag	480
gattccttta	tggggtcagt	gggaaagggt	tcaatgggac	ttcggctctc	atgccgaaac	540
accaaagtc	caaacttcaa	ctccttggt	agtacacttc	ggtctagcca	gaaaaaaaagc	600
agaacaaga	agccaaggct	aaggcttgct	gcctgccag	gaggaggggt	gcagctctca	660
gtttgag						667

<213> Homo sapiens

ctacgtctca	accctcattt	ttaggtaagg	aatcttaagt	ccaaagatat	taagtgactc	60
acacagccag	gtaaggaaag	ctggattggc	acactaggac	tctaccatac	cgggttttgt	120
taaagctcag	gttaggaggc	tgataagctt	ggaaggaact	tcagacagct	ttttcagatc	180
ataaaagata	attcttagcc	catgtttctc	tccagagcac	acctgaaatg	acagcacagc	240
aggtactcct	ctattttcac	ccctcttgct	tctactctct	ggcagtcaga	cctgtgggag	300
gccatgggag	aaagcagctc	tctggatggt	tgtacagatc	atggactatt	ctctgtggac	360
cattttctcca	ggttacccta	ggtgtcacta	ttggggggac	agccagcatc	tttagctttc	420
atttgagttt	ctgtctgtct	tcagtagagg	aaacttttgc	tcttcacact	tcacatctga	480
acacctaaat	gctgttgctc	ctgaagtggt	gaaagacaga	tatagagctt	acagtattta	540
tcctatttct	aggcactgag	ggctgtgggg	taccttgtgg	tgccaaaaca	gatcctgttt	600
taaggacatg	ttgcttccga	gatgtctgta	actatctggg	ggctctgttg	gctctttacc	660
ctgcatcatg	tgtctctttg	qctgaaaatg	acc			693

<213> Homo sapiens

ctgcttatca	caatgaatgt	tctcctgggc	agcgttgtga	tctttgccac	cttcgtgact	60
ttatgcaatg	catcatgcta	tttcatacct	aatgaggag	ttccaggaga	ttcaaccagg	120
atgtttctac	acctgtgggt	tatgacaaag	acaactgcc	aagaatcttc	aagaaggagg	180
actgcaagta	tatctgtgtg	agaagaagga	cccaaaaaag	acctgttctg	tcagtgtaat	240
gataatctaa	ttgtgcttga	gtaggcacag	ggctcccgag	ccaggcctca	ttctcctctg	300
gcctctaata	gtcaataatt	gtgtagccat	gcctatcagt	aaaaagattt	ttgagcaaac	360

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(431)
 <223> n = A,T,C or G

<400> 439
 gttcctnnta actcctgcc aaaacagctc tcctcaacat gagagctgca cccctcctcc 60
 tggccagggc agcaagcctt agccttggtc tcttgtttct gctttttttc tggctagacc 120
 gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
 gtcccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
 gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaaga 300
 gatatagaaa attccttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
 acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
 aatttagtag t 431

<210> 440
 <211> 523
 <212> DNA
 <213> Homo sapiens

<400> 440
 agagataaaag cttagggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
 ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
 tttaaatgtc tgaaatggaa cagatttcaa aaaaaaacc cacaatctag ggtgggaaca 180
 aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttacccat cagttccagc 240
 cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
 actggaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360
 taaaaattaa aacctctttg tgtcccttgg tcctggaaca tttatgttcc ttttaaagaa 420
 acaaaaatca aactttacag aaagatttga tgtatgtaac acatatagca gctcttgaag 480
 tatatatatc atagcaaata agtcatctga tgagaacaag cta 523

<210> 441
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 441
 gttcctccta actcctgcc aaaacagctc tcctcaacat gagagctgca cccctcctcc 60
 tggccagggc agcaagcctt agccttggtc tcttgtttct gctttttttc tggctagacc 120
 gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
 gtcccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
 gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaaga 300
 gatatagaaa attccttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
 acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
 aatttagtag 430

<210> 442
 <211> 362
 <212> DNA
 <213> Homo sapiens

<400> 442
 ctaagggaatt agtagtggtc ccatcacttg tttggagtgt gctattctaa aagattttga 60
 tttcctggaa tgacaattat attttaactt tgggtggggg aagagttata ggaccacagt 120


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cttcacttct gatacttgta aattaatctt ttattgcact tgttttgacc attaagctat 180
atgttttagaa atgggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240
aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaattctttt 300
tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360
tc                                                                 362

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<210> 443
<211> 624
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(624)
<223> n = A,T,C or G

```

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<400> 443
tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60
ttgaaagaat taaattcaga ggaggggaga gaaagagtac tcagtaggga ctgagcacta 120
aatgcttatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180
tgctggctag tactccggtc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240
cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaaacttg cttcctgttt 300
tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaataaac 360
taacgcctac aaaacactta aacatagata acataggtgc aagtactatg tatctggtac 420
atggtaaaca tccttattat taaagtcaac gctaaaatga atgtgtgtgc atatgctaata 480
agtacagaga gagggcactt aaaccaacta agggcctgga gggaagggtt cctggaaaaga 540
ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tattttaaact 600
ttgtccctat ctgctaaaca gatc                                                                 624

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<210> 444
<211> 425
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(425)
<223> n = A,T,C or G

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<400> 444
gcacatcatt nntcttgcatt tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60
gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120
ttcattgcta tagcataaca caaaatttgc ataagtgggtg gtcagcaaat ccttgaatgc 180
tgcttaatgt gagagggttg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240
gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300
cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcacacctg gaagagccaa 360
ggaggcacca gggcataagt gagtagactt atggtcgacg cggccgcgaa tttagtagta 420
gtaga                                                                 425

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<210> 445
<211> 414
<212> DNA
<213> Homo sapiens

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<220>
 <221> misc_feature
 <222> (1)...(414)
 <223> n = A,T,C or G

<400> 445
 catgtttatg nttttggatt actttgggca cctagtgttt ctaaactcgtc tatcattctt 60
 ttctgtttttt caaaagcaga gatggccaga gtctcaacaa actgtatctt caagtctttg 120
 tgaaattctt tgcattgtggc agattatttg atgtagtctt ctttaactag catataaatc 180
 tgggtgtgtt cagataaatg aacagcaaaa tgtggtggaa ttaccatttg gaacattgtg 240
 aatgaaaaat tgtgtctcta gattatgtaa caaataacta tttcctaacc attgatcttt 300
 ggatttttat aatcctactc acaaatgact aggcctctcc tcttgatatt tgaagcagtg 360
 tgggtgctgg attgataaaa aaaaaaaaaa tgcacgcggc cgcgaattta gtag 414

<210> 446
 <211> 631
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(631)
 <223> n = A,T,C or G

<400> 446
 acaaatgaga anaaagtggc agagaacacc acataccttg tccggaacat tacaatggct 60
 tctgcatgca tgggaagtgt gagcattcta tcaatatgca ggagccatct tgcaggtgtg 120
 atgctgggta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttggtc 180
 ccggtcctgt acgatttcag tatgtcttaa tcgcagctgt gattggaaca attcagattg 240
 ctgtcatctg tgtggtgggc ctctgcatca caagggccaa actttaggta atagcattgg 300
 actgagattt gtaaaccttc caaccttcca ggaaatgcc cagaagcaac agaattcaca 360
 gacagaagca aaatacaggg cactacaggt cagacaatac aacaagagcg tccacgaggt 420
 taatctaaag ggagcatggt tcacagtggc tggactaccg agagcttgga ctacacaata 480
 cagtattata gacaaaagaa taagacaaga gatctacaca tgttgccctg catttggtgg 540
 aatctacacc aatgaaaaca tgtactacag ctatatttga ttatgtatgg atatatttga 600
 aatagtatac attgtcttga tgttttttct g 631

<210> 447
 <211> 585
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(585)
 <223> n = A,T,C or G

<400> 447
 ccttgggaaa antntcacia tataaagggt cgtagacttt actccaaatt ccaaaaaggt 60
 cctggccatg taatcctgaa agttttccca aggtagctat aaaatcctta taagggtgca 120
 gcctcttctg gaattcctct gatttcaaa tctcactctc aagttcttga aaacgagggc 180
 agttcctgaa aggcaggtat agcaactgat cttcagaaag aggaactgtg tgcaccggga 240
 tgggctgcca gagtaggata ggattccaga tgctgacacc ttctggggga aacagggctg 300
 ccagggttgt catagcactc atcaaaagtcc ggtcaacgtc tgtgcttcga atataaacct 360


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gttcatgttt ataggactca ttcaagaatt ttctatatct ctttcttata tactctccaa 420
gttcataaatg ctgctccatg cccagctggg tgagttggcc aaatccttgt ggccatgagg 480
attcctttat ggggtcagtg ggaaagggtg caatgggact tcggtctcca tgccgaaaca 540
ccaaagtcac aaacttcaac tccttggcta gtacacttcg gtcta 585

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<210> 448
<211> 93
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(93)
<223> n = A,T,C or G

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<400> 448
tgctcgtggg tcattctgan nnccgaactg accntgccag ccttgccgan gggccnccat 60
ggctccctag tgccctggag agganggggc tag 93

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<210> 449
<211> 706
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

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<400> 449
ccaagtcat gctntgtgct ggacgctgga cagggggcaa aagcnnttgc tcgtgggtca 60
ttctgancac cgaactgacc atgccagccc tgccgatggt cctccatggc tccctagtgc 120
cctggagagg aggtgtctag tcagagagta gtcctggaag gtggcctctg ngaggagcca 180
cggggacagc atcctgcaga tggtcgggcg cgtcccatc gccattcagg ctgcgcaact 240
gttgggaagg gcgatcggtg cgggcctctt cgctattacg ccagctggcg aaagggggat 300
gtgctgcaag gcgattaagt tgggtaacgc caggggtttc ccagtcncga cgttgtaaaa 360
cgacggccag tgaattgaat ttaggtgacn ctatagaaga gctatgacgt cgcatgcacg 420
cgtacgtaag cttggatcct ctagagcggc cgcctactac tactaaattc gcggccgcgt 480
cgacgtggga tccnactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600
aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncacca 660
gcatggatga cagagtgaaa ctccatctta aaaaaaaaaa aaaaaa 706

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<210> 450
<211> 493
<212> DNA
<213> Homo sapiens

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<400> 450
gagacggagt gtcactctgt tgcccaggct ggagtgcagc aagacactgt ctaagaaaaa 60
acagttttaa aaggtaaaac aacataaaaa gaaatatcct atagtggaaa taagagagtc 120
aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccaata tcaactgcatg 180
agcctaagta taagaacaac ctttggggag aaaccatcat ttgacagtga ggtacaattc 240
caagtcagggt agtgaaatgg gtggaattaa actcaatta atcctgccag ctgaaacgca 300

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agagacactg  tcagagagtt  aaaaagtggag  ttctatccat  gagggtgattc  cacagtcttc  360
tcaagtcaac  acatctgtga  actcacagac  caagttctta  aaccactgtt  caaactctgc  420
tacacatcag  aatcacctgg  agagctttac  aaactcccat  tgccgagggt  cgacgcggcc  480
gcgaatttag  tag

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<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G
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<210> 452
<211> 51
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> (1)...(51)
<223> n = A,T,C or G
```

<400> 452
agacggtttc accnttaca cnccttttag gatgggnntt ggggagcaag c 51

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<210> 453
<211> 317
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> (1)...(317)
<223> n = A,T,C or G
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<400> 453						
tacatcttgc	tttttcccca	ttggaactag	tcattaaccc	atctctgaac	tggtagaaaa	60
acatctgaag	agctagtcta	tcagcatctg	gcaagtgaat	tggatggttc	tcagaacctt	120
ttcacccna	cagcctgttt	ctatctctgt	taataaatta	gtttgggttc	tctacatgca	180
taacaaaccc	tqctccaatc	tqtacataaa	aagtcttgtg	cttgaagttt	antcagcacc	240

cccaccaaac tttatTTTTc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300
taccatgtc tttatta 317

<210> 454
<211> 231
<212> DNA
<213> Homo sapiens

<400> 454
ttcgaggtag aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60
taagccacgc cagctcttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120
agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180
ccttctttt tcagtgttcc aaagctcctc acaatttcat gaacaacagc t 231

<210> 455
<211> 231
<212> DNA
<213> Homo sapiens

<400> 455
taccaaagag ggcataataa tcagtctcac agtaggggtc accatcctcc aagtgaaaaa 60
cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120
gtttcaacgc attgatgact tctccaagga tcttctttg gcatcgacca cattcagggg 180
caaagaattt ctcatagcac agctcacaat acagggtctc tttctcctct a 231

<210> 456
<211> 231
<212> DNA
<213> Homo sapiens

<400> 456
ttggcaggta cccttacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60
ttccattcag tattatcgtt attattcttg gagaaccct gtctgtttac tgtaaccttt 120
tgactcaaa ttcctttatc aggaataact acatagccac tatttacaaa gccattggaa 180
cctttttatt tgggtgcagct gctagtcagt ccttgactga cattgccaag t 231

<210> 457
<211> 231
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

<400> 457
cgaggtagcc aggggtctga aaatctctnn ttntantagtc gatagcaaaa ttgttcatca 60
gcattcctta atatgatctt gctataatta gatttttctc cattagagtt catcacagttt 120
tatttgattt tatttagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
agttgtctaa atcgatgcct catttctctc gaggtgtcgc tggcttttgt g 231

<210> 458
<211> 231

<212> DNA
<213> Homo sapiens

<400> 458
aggtctggtt cccccactt cactccct ctactctctc taggactggg ctgggccaag 60
agaagagggg tggtagga agccgttgag acctgaagcc ccaccctcta ccttccttca 120
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<210> 463

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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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311

$\langle 211 \rangle$ 3112

<212> DNA

<213> Homo sapiens

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<212> DNA
<213> Homo sapiens
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<210> 470
<211> 2426

<212> DNA
<213> Homo sapiens

<400> 470

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<211> 812
<212> DNA
<213> Homo sapiens

<400> 471

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<211> 515

<212> DNA

<213> Homo sapiens

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<211> 5829

<212> DNA

<213> Homo sapiens

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<210> 474

<211> 1594

<212> DNA

<213> Homo sapiens

<400> 474

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gttttcagaa ttattgtatg cagtcagtat gagaatgcaa ttttaagttc cttgatgctt 360
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<210> 475

<211> 2414

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (33)

<223> n=A,T,C or G

<400> 475

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```



```
<210> 476
<211> 3434
<212> DNA
<213> Homo sapiens
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gccagtggta	ccaccacagg	gacttgtgct	tctgtggccc	aggccagacg	tagaatttga	240
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```

<210> 477

<211> 140

<212> PRT

<213> Homo sapiens

<400> 477

```

Met Asp Gly His Thr Asp Ile Trp Arg Asn His Met Asp Thr Pro Pro
          5                      10                      15

```

```

His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr
          20                      25                      30

```

```

Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
          35                      40                      45

```

```

His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
          50                      55                      60

```

```

His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
          65                      70                      75                      80

```

```

Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
          85                      90                      95

```

```

Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
          100                      105                      110

```

```

Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
          115                      120                      125

```

```

Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln
          130                      135                      140

```



```

<400> 478
Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
      5                      10                      15

Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
      20                      25                      30

Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr
      35                      40                      45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
      50                      55                      60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
      65                      70                      75                      80

Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser
      85                      90                      95

His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp
      100                     105                     110

Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser
      115                     120                     125

His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val
      130                     135                     140

```

```

<400> 479
Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
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Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
          20                      25                      30

Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr
          35                      40                      45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
          50                      55                      60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr

```


65	70										75					80				
Pro	Thr	His	Cys	His	Met	Asp	Thr	Ala	Thr	His	Thr	Ala	Thr	Leu	Ser					
				85					90					95						
His	Gly	His	Thr	Ser	Ile	Pro	Ser	His	His	His	Thr	His	Cys	His	Val					
			100					105					110							
Asp	Thr	Arg	Thr	His	Arg	His	Cys	His	Thr	Asp	Thr	Gln	Asn	Thr	Val					
		115					120					125								
Thr	Arg	Arg	His	His	His	Ala	Asp	Thr	Pro	Pro	His	Gly	His	Ser	Thr					
	130					135					140									
Arg	His	Ser	Ala	Thr	Gln	Ile	His	His	His	Thr	Glu	Met	Arg	Thr	His					
145					150					155					160					
Cys	His	Thr	Asp	Thr	Thr	Thr	Ser	Leu	Pro	His	Phe	His	Val	Ser	Ala					
				165					170					175						
Gly	Gly	Val	Gly	Pro	Thr	Thr	Leu	Gly	Ser	Asn	Arg	Glu	Ile	Thr	Trp					
			180					185					190							
Thr	Tyr	Ser	Glu	Gly	Lys	Ile	Phe	Phe	Tyr	Phe	Leu	Gly	Asn	Gln	Ala					
		195					200					205								
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	210					215					220									
<210> 480																				
<211> 144																				
<212> PRT																				
<213> Homo sapiens																				
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				5					10					15						
Cys	Cys	Leu	Trp	Gly	Leu	Gln	Ser	Leu	Pro	Gln	Gly	Ser	Tyr	Val	Thr					
			20					25					30							
Val	Gly	Phe	Leu	Val	Val	Lys	Arg	Gln	Thr	Ile	Gly	Arg	Leu	Glu	Arg					
		35					40					45								
Asp	Phe	Met	Phe	Lys	Cys	Arg	Lys	Gln	Pro	Gly	Leu	Pro	Pro	Ser	Gly					
	50					55					60									
Leu	Cys	Leu	Leu	Trp	Pro	Trp	Pro	Asn	Leu	Glu	Phe	Gly	Arg	Arg	Gln					
65					70					75					80					
Asp	Arg	Leu	Thr	Trp	Ser	Ser	Val	Ser	Val	Ala	Gly	Val	Cys	Ala	Cys					
				85					90					95						

Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly
 100 105 110

Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu
 115 120 125

Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
 130 135 140

<210> 481
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 481
 Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro
 5 10 15

Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
 20 25 30

Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
 35 40 45

Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
 50 55 60

Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro
 65 70 75 80

Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg
 85 90 95

Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala
 100 105 110

Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His
 115 120 125

Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe
 130 135 140

Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser
 145 150 155 160

Trp Leu Ser Arg Gly Arg Pro
 165

<210> 482


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<400> 482
Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val
      5      10      15

Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu
      20      25      30

Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg
      35      40      45

Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly
      50      55      60

Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe
      65      70      75      80

Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr
      85      90      95

Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly
      100      105      110

Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys
      115      120      125

Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly
      130      135      140

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<400> 483
Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val
      5                      10                      15

Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala
      20                      25                      30

Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp
      35                      40                      45

Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu
      50                      55                      60

Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp
      65                      70                      75                      80

```


<400> 487

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36

<210> 488
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 488
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33

<210> 489
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 489
 Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala
 1 5 10 15
 Ser Val Ala

<210> 490
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 490
 Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
 1 5 10 15
 Leu Ser His Ser
 20

<210> 491
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 491
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
 1 5 10 15
 Thr Gly Phe Thr
 20

CCGGAATTCT TAGCTGCCCA TCCGAACGCC TTCAC


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1           5           10           15
Phe Pro Asn Gly
20

<210> 496
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 496
Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
1           5           10           15
Pro Pro Pro Pro Ala
20

<210> 497
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 497
Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val
1           5           10           15
Ser Val Arg Val
20

<210> 498
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 498
Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala Arg Val
1           5           10           15
Val Pro Gly Arg
20

<210> 499
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

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16630145660

<400> 499
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
 1 5 10 15
 Ser Ala Phe Leu
 20

<210> 500
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 500
 Leu Asp Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met
 1 5 10 15
 Gly Ser Ile Val
 20

<210> 501
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 501
 Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met
 1 5 10 15
 Val Ser Ala Ala
 20

<210> 502
 <211> 414
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(414)
 <223> n=A,T,C or G

<400> 502
 caccatggag acaggcctgc gctggctttt cctggtcgct gtgctcaaag gtgtccaatg 60
 tcagtccggtg gaggagtccg ggggtcgctt ggtcacgcct gggacacctt tgacantcac 120
 ctgtagagtt tttggaatng acctcagtag caatgcaatg agctgggtcc gccaggctcc 180
 agggaagggg ctggaatgga tcggagccat tgataattgt ccacantacg cgacctgggc 240
 gaaaggccga ttnatnattt ccaaaacctn gaccacggtg gatttgaaaa tgaccagtcc 300
 gacaaccgag gacacggcca cctatTTTTT tggcagaatg aatactggta atagtggttg 360
 gaagaatatt tggggccccag gcaccctggt caccgtntcc tcagggcaac ctaa 414

<210> 503

100250-13530


```
<211> 379
<212> DNA
<213> Homo Sapien
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<400> 503						
atnccgatggt	gcttggtcaa	aggtgtccag	tgtcagtcgg	tggaggagtc	cggggggtcgc	60
ctggtcacgc	ctgggacacc	cctgacactc	acctgcaccg	tntctggatt	ngacatcagt	120
agctatggag	tgagctgggt	ccgccagget	ccagggaagg	ggctgggnata	catcgggatca	180
ttagtagtag	tggtacattt	tacgcgagct	gggcgaaaag	ccgattcacc	atttccaaaa	240
cctngaccac	ggtggatttg	aaaatcacca	gtttgacaac	cgaggacacg	gccacctatt	300
tntgtgccag	agggggggtt	aattataaag	acatttgggg	cccaggcacc	ctgggtcaccg	360
tntccttagg	gcaacctaa					379

<400> 504
Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu
1 5 10 15
Asn Ser Ala

<400> 505
Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr
1 5 10 15
Asn Thr Ala Asn
20

<400> 506
atggagacag gcttgcgctg gcttctcctg gtcgctgcgc tcaaagggtg ccagtgtcag 60


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tcgctggagg agtccggggg tcgcctgggc acgcctggga caccctgac actcacctgc 120
accgtctctg gattctccct cagtagcaat gcaatgatct gggcccgcca ggctccaggg 180
aaggggctgg aatacatcgg atacattagt tatggtggtg gcgcatacta cgcgagctgg 240
gtgaaaggcc gattcaccat ctccaaaacc tcgaccacgg tggatctgag aatgaccagt 300
ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgattt tagtggtatg 360
ttgtggggcc caggcacctt ggtcacctgc tcctcagggc aacctaa 407

```

```

<210> 507
<211> 422
<212> DNA
<213> Homo Sapien

```

```

<400> 507
atggagacag gcctgcgctg gcttctcctg tgcgtgtgct tcaaagggtg ccagtgtcag 60
tcggtggagg agtccggggg tcgcctgggc acgcctggga caccctgac actcacctgt 120
acagtctctg gattctccct cagcaactac gacctgaact gggcccgcca ggctccaggg 180
aaggggctgg aatggatcgg gatcattaat tatgttggtg ggacggacta cgcgaactgg 240
gcaaaaggcc ggttcacat ctccaaaacc tcgaccacgg tggatctcaa gatcgccagt 300
ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct 360
ggtcctgtct tgcgcatctg gggcccaggc accctgggtc ccgtctcctt agggcaacct 420
aa 422

```

```

<210> 508
<211> 411
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(411)
<223> n=A,T,C or G

```

```

<400> 508
atggagacag gcctgcgctg cttctcctgg tgcgtgtgct caaagggtgc cagtgtcagt 60
cgggtggagg gtccgggggt cgcctgggtc cgcctgggac acccctgaca ctcacctgca 120
cagtctctgg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccagggg 180
aggggctgga atggatcggg atcattggta ctctcgtgta cacatactac gcgaggtggg 240
cgaaaaggcc attcaccatc tccaaaacct cgaccacggg gcatntgaaa atcnccagtc 300
cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta 360
ctggttatta taaaatctgg ggcccaggca ccctgggtcac cgtctccttg g 411

```

```

<210> 509
<211> 15
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Made in a lab

```

```

<400> 509
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
1           5           10           15

```

```

<210> 510

```

F00230:172360


```
<211> 15
<212> PRT
<213> Artificial Sequence
```


<400> 514
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
1 5 10 15

<220>
<223> Made in a lab

Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg
1 5 10 15

<220>
<223> Made in a lab

<400> 516
Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln
1 5 10 15

<220>
<223> Made in a lab

<400> 517
 Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met
 1 5 10 15

<220>
<223> Made in a lab

<400> 518
Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
1 5 10 15

<210> 519
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 519
 Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg Asn Tyr Asp Glu Gly Cys
 1 5 10 15
 Gly

<210> 520
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 520
 Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
 1 5 10 15
 Glu Ala Arg Arg His Tyr Asp Glu Gly
 20 25

<210> 521
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 521
 Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
 1 5 10 15
 Pro Pro Pro Pro Ala
 20

<210> 522
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 522
 Leu Leu Val Val Pro Ala Ile Lys Lys Asp Tyr Gly Ser Gln Glu Asp
 1 5 10 15
 Phe Thr Gln Val


```
<210> 523
<211> 254
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Made in a lab

```
<220>  
<221> VARIANT  
<222> (1)...(254)  
<223> Xaa = any amino acid
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	<400> 523														
Met 1	Ala	Thr	Ala	Gly 5	Asn	Pro	Trp	Gly 10	Trp	Phe	Leu	Gly 15	Tyr	Leu 15	Ile
Leu	Gly	Val	Ala 20	Gly	Ser	Leu	Val	Ser 25	Gly	Ser	Cys	Ser 30	Gln	Ile	Ile
Asn	Gly	Glu 35	Asp	Cys	Ser	Pro	His 40	Ser	Gln	Pro	Trp	Gln 45	Ala	Ala	Leu
Val	Met 50	Glu	Asn	Glu	Leu	Phe 55	Cys	Ser	Gly	Val	Leu 60	Val	His	Pro	Gln
Trp 65	Val	Leu	Ser	Ala	Thr 70	His	Cys	Phe	Gln	Asn 75	Ser	Tyr	Thr	Ile	Gly 80
Leu	Gly	Leu	His 85	Ser	Leu	Glu	Ala	Asp	Gln 90	Glu	Pro	Gly	Ser	Gln 95	Met
Val	Glu	Ala	Ser 100	Leu	Ser	Val	Arg	His 105	Pro	Glu	Tyr	Asn	Arg	Pro	Leu
Leu	Ala	Asn 115	Asp	Leu	Met	Leu	Ile 120	Lys	Leu	Asp	Glu	Ser 125	Val	Ser	Glu
Ser	Asp 130	Thr	Ile	Arg	Ser	Ile	Ser 135	Ile	Ala	Ser	Gln 140	Cys	Pro	Thr	Ala
Gly 145	Asn	Ser	Cys	Leu	Val 150	Ser	Gly	Trp	Gly	Leu 155	Leu	Ala	Asn	Gly	Arg 160
Met	Pro	Thr	Val 165	Leu	Gln	Cys	Val	Asn 170	Val	Ser	Val	Val	Ser	Glu	Glu 175
Val	Cys	Ser	Lys 180	Leu	Tyr	Asp	Pro	Leu 185	Tyr	His	Pro	Ser	Met	Phe	Cys
Ala	Gly	Gly 195	Gly	Gln	Xaa	Gln	Xaa 200	Asp	Ser	Cys	Asn	Gly 205	Asp	Ser	Gly
Gly	Pro 210	Leu	Ile	Cys	Asn	Gly	Tyr 215	Leu	Gln	Gly	Leu 220	Val	Ser	Phe	Gly
Lys 225	Ala	Pro	Cys	Gly	Gln 230	Val	Gly	Val	Pro	Gly 235	Val	Tyr	Thr	Asn	Leu 240
Cys	Lys	Phe	Thr 245	Glu	Trp	Ile	Glu	Lys	Thr 250	Val	Gln	Ala	Ser		

```
<210> 524
<211> 765
<212> DNA
<213> Homo sapien
```



```
<210> 525
<211> 254
<212> PRT
<213> Homo sapien
```

<400>	525														
Met	Ala	Thr	Ala	Gly	Asn	Pro	Trp	Gly	Trp	Phe	Leu	Gly	Tyr	Leu	Ile
1				5					10					15	
Leu	Gly	Val	Ala	Gly	Ser	Leu	Val	Ser	Gly	Ser	Cys	Ser	Gln	Ile	Ile
			20					25					30		
Asn	Gly	Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu
		35					40					45			
Val	Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln
	50					55					60				
Trp	Val	Leu	Ser	Ala	Ala	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly
65					70					75					80
Leu	Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met
				85					90					95	
Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu
			100					105					110		
Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu
		115					120					125			
Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala
		130				135					140				
Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg
145					150					155					160
Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu
				165					170					175	
Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys
			180					185					190		
Ala	Gly	Gly	Gly	Gln	Asp	Gln	Lys	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly
		195					200					205			
Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly
	210					215					220				
Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu
225					230					235					240
Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser		
				245					250						


```

<400> 527
Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
      5                      10                      15

Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
      20                      25                      30

Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
      35                      40                      45

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
      50                      55                      60

Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
      65                      70                      75                      80

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
      85                      90                      95

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
      100                     105                     110

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
      115                     120                     125

```



```

<210> 528
<211> 20
<212> DNA
<213> Homo Sapien

<400> 528
actatggtcc agaggctgtg

<210> 529
<211> 20
<212> DNA
<213> Homo Sapien

<400> 529
atcacctatg tgccgcctct

<210> 530
<211> 1852

```

```
<210> 529
<211> 20
<212> DNA
<213> Homo Sapien
```

<400> 529
atcacctatg tgccgcctct 20

$\langle 210 \rangle$	530
$\langle 211 \rangle$	1852

<212> DNA
<213> Homo sapiens

<400> 530

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ggcacgagaa ttaaaaccct cagcaaaaca ggcatagaag ggacatacct taaagtaata 60
aaaaccacct atgacaagcc cacagccaac ataatactaa atggggaaaa gttagaagca 120
tttcctctga gaactgcaac aataaataca aggatgctgg attttgtcaa atgccttttc 180
tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240
ttattgactt gcctgtgtta gaccggaaga gctggggtgt ttctcaggag ccaccgtgtg 300
ctgcggcagc ttcgggataa cttgaggctg catcactggg gaagaaacac aytccctgtcc 360
gtggcgctga tggctgagga cagagcttca gtgtggcttc tctgcgactg gcttcttcgg 420
ggagtcttcc cttcatagtt catccatatt gctccagagg aaaattatat tttttgtta 480
tggatgaaga gtattacgtt gtgcagatat actgcagtgt cttcatctct tgatgtgtga 540
ttgggtaggt tccaccatgt tgccgcagat gacatgattt cagtacctgt gtctggctga 600
aaagtgtttg tttgtgaatg gatattgtgg tttctggatc tcatcctctg tgggtggaca 660
gctttctcca ccttgctgga agtgacctgc tgtccagaag tttgatggct gaggagtata 720
ccatcgtgca tgcactcttc atttcctgca tttcttcctc cctggatgga cagggggagc 780
ggcaagagca acgtgggcac ttctggagac cacaacgact cctctgtgaa gacgcttggg 840
agcaagaggt gcaagtgggt ctgccactgc ttcccctgct gcagggggag cggcaagagc 900
aacgtggtcg cttggggaga ctacgatgac agcgccctca tggatcccag gtaccacgtc 960
catggagaag atctggacaa gctccacaga gctgcctggt ggggtaaagt ccccagaaag 1020
gatctcatcg tcatgctcag ggacacggat gtgaacaaga gggacaagca aaagaggact 1080
gctctacatc tggcctctgc caatgggaat tcagaagtag taaaactcgt gctggacaga 1140
cgatgtcaac ttaatgtcct tgacaacaaa aagaggacag ctctgacaaa ggccgtacaa 1200
tgccaggaag atgaatgtgc gttaatgttg ctggaacatg gcactgatcc aaatattcca 1260
gatgagtatg gaaataccac tctacactat gctgtctaca atgaagataa attaatggcc 1320
aaagcactgc tcttatacgg tgctgatatc gaatcaaaaa acaagcatgg cctcacacca 1380
ctgctacttg gtatacatga gcaaaaacag caagtgggtga aatttttaat caagaaaaaa 1440
gcgaatttaa atgcgctgga tagatatgga agaactgctc tcatacttgc tgtatgttgt 1500
ggatcagcaa gtatagtcag cctctacttt gagcaaaatg ttgatgtatc ttctcaagat 1560
ctggaaagac ggccagagag tatgctgttt ctagtcatca tcatgtaatt tgccagttac 1620
tttctgacta caaagaaaaa cagatgttaa aaatctcttc tgaaaacagc aatccagaac 1680
aagacttaaa gctgacatca gaggaagagt cacaaaggct taaagggaag gaaaacagcc 1740
agccagagct agaagattta tggctattga agaagaatga agaacacgga agtactcatg 1800
tgggattccc agaaaacctg actaacggtg ccgctgctgg caatggtgat ga 1852

```

<210> 531
<211> 879
<212> DNA
<213> Homo sapiens

<400> 531

```

atgcactctt catttctgc atttcttct ccctggatgg acagggggag cggcaagagc 60
aacgtgggca cttctggaga ccacaacgac tcctctgtga agacgcttg gagcaagagg 120
tgcaagtggg gctgccactg cttcccctgc tgcaggggga gcggcaagag caacgtggtc 180
gcttggggag actacgatga cagcgcttcc atggatccca ggtaccacgt ccatggagaa 240
gatctggaca agctccacag agctgcctgg tgggttaaag tccccagaaa ggatctcatc 300
gtcatgctca gggacacgga tgtgaacaag agggacaagc aaaagaggac tgctctacat 360
ctggcctctg ccaatgggaa ttcagaagta gtaaaactcg tgctggacag acgatgtcaa 420
cttaatgtcc ttgacaacaa aaagaggaca gctctgacaa aggccgtaca atgccaggaa 480
gatgaatgtg cgtaaatgtt gctggaacat ggcaactgat caaatattcc agatgagtat 540
ggaaatacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
ctcttatacg gtgctgatat cgaatcaaaa aacaagcatg gcctcacacc actgctactt 660
ggatatacatg agcaaaaaa gcaagtgggtg aaatttttaa tcaagaaaaa agcgaattta 720

```


aatgcgctgg atagatatgg aagaactgct ctcatacttg ctgtatgttg tggatcagca 780
 agtatagtca gccctctact tgagcaaaat gttgatgtat cttctcaaga tctggaaaga 840
 cggccagaga gtatgctgtt tctagtcac atcatgtaa 879

<210> 532

<211> 292

<212> PRT

<213> Homo sapiens

<400> 532

Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
 5 10 15

Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
 20 25 30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
 35 40 45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
 50 55 60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
 65 70 75 80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
 85 90 95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
 100 105 110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
 115 120 125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
 130 135 140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
 145 150 155 160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
 165 170 175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
 180 185 190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
 195 200 205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
 210 215 220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
 225 230 235 240

00005011-052901

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
245 250 255


```
<210> 535
<211> 6082
<212> DNA
<213> Homo sapiens
```

<400> 535							
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cggagcccg	ggccactgcc	gcctgatcag	cgcgaccccg	gcccgcgccc	gccccgccc	180	
gcaagatgct	gcccgtgtac	caggaggtga	agccaaccc	gttcgaggac	gcgaacctct	240	
gctcacgcgt	gttcttctgg	tggtcfaat	ccttgtttaa	aattggccat	aaacggagat	300	
tagaggaaga	tgatattgat	tcagtgtctc	cagaagaccg	ctcacagcac	cttggagagg	360	
agttgcaag	gttctgggat	aaagaagttt	taagactctga	gaatgacgca	cagaagcctt	420	
ctttaacaag	agcaatcata	aaagtgttact	ggaatacttta	tttagttttg	ggaattttta	480	
cgttaattga	qgaaagtqcc	aaaqtaatcc	agcccatatt	tttgggaaaa	attatttaatt	540	

attttgaaaa	ttatgatccc	atggattctg	tggctttgaa	cacagcgta	gcctatgcca	600
cgggtgctgac	tttttgcacg	ctcatttttg	ctatactgca	tcacttata	ttttatcacg	660
ttcagtggtgc	tgggatgagg	ttacgagtag	ccatgtgcca	tatgatttat	cggaaggcac	720
ttcgtcttag	taacatggcc	atggggaaga	caaccacagg	ccagatagtc	aatctgctgt	780
ccaatgatgt	gaacaagttt	gatcagggtga	cagtgttctt	acacttctg	tgggcaggac	840
cactgcaggc	gatcgagtg	actgccctac	tctggatgga	gataggaata	tcgtgccttg	900
ctgggatggc	agttctaata	attctcctgc	ccttgcaaa	ctgttttggg	aagttgttct	960
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Ile Gln Pro Ile Phe Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr
65          70          75          80

Asp Pro Met Asp Ser Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr
85          90          95

Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr
100         105         110

Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys
115         120         125

His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly
130         135         140

Lys Thr Thr Thr Gly Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn
145         150         155         160

Lys Phe Asp Gln Val Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro
165         170         175

Leu Gln Ala Ile Ala Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile

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180						185						190					
Ser	Cys	Leu	Ala	Gly	Met	Ala	Val	Leu	Ile	Ile	Leu	Leu	Pro	Leu	Gln		
		195				200						205					
Ser	Cys	Phe	Gly	Lys	Leu	Phe	Ser	Ser	Leu	Arg	Ser	Lys	Thr	Ala	Thr		
210						215						220					
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225						230				235				240			
Arg	Ile	Ile	Lys	Met	Tyr	Ala	Trp	Glu	Lys	Ser	Phe	Ser	Asn	Leu	Ile		
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Thr	Asn	Leu	Arg	Lys	Lys	Glu	Ile	Ser	Lys	Ile	Leu	Arg	Ser	Ser	Cys		
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Leu	Arg	Gly	Met	Asn	Leu	Ala	Ser	Phe	Phe	Ser	Ala	Ser	Lys	Ile	Ile		
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Val	Phe	Val	Thr	Phe	Thr	Thr	Tyr	Val	Leu	Leu	Gly	Ser	Val	Ile	Thr		
290						295				300							
Ala	Ser	Arg	Val	Phe	Val	Ala	Val	Thr	Leu	Tyr	Gly	Ala	Val	Arg	Leu		
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Gly	Glu	Leu	Ala	Pro	Ser	His	Gly	Leu	Val	Ser	Val	His	Gly	Arg	Ile		
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Ala	Tyr	Val	Ser	Gln	Gln	Pro	Trp	Val	Phe	Ser	Gly	Thr	Leu	Arg	Ser		
435						440				445							
Asn	Ile	Leu	Phe	Gly	Lys	Lys	Tyr	Glu	Lys	Glu	Arg	Tyr	Glu	Lys	Val		
450						455				460							
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[illegible]

[illegible]

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Lys Met Ser Ile Ile Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met		
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Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp		
1090	1095	1100
Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro		
1105	1110	1115
Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val		
1125	1130	1135
Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn		
1140	1145	1150
Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr		
1155	1160	1165
Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr		
1170	1175	1180
Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys		
1185	1190	1195
Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr		
1205	1210	1215
Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln		
1220	1225	1230
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<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 539

Cys	Leu	Ser	His	Ser	Val	Ala	Val	Val	Thr
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Met Thr

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Glu Cys

<210> 549
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 549
 Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg
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Gln Ala

<210> 550
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 550
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<210> 551
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 <213> Artificial Sequence

<220>
 <223> Made in a lab

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 <211> 2577
 <212> DNA
 <213> Homo sapiens

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<210> 553

<211> 58

<212> PRT

<213> Homo sapiens

<400> 553

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Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys
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```

```

Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly
          20                      25                      30

```

```

Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr
          35                      40                      45

```

```

Glu Pro His His Thr Gly Gly Gly Glu His
          50                      55

```



```

<400> 554
Leu Gln Lys Asn Lys Leu Arg Ala Ser Thr Asp Ser Thr Leu Trp Ile
          5                      10                      15

Cys Ala Ala Glu Ala Ser Thr Lys Pro Tyr Phe Tyr Thr Cys Leu Val
          20                      25                      30

Met Leu His Gly Gln Gly Leu Ala Leu Leu Ser Pro Thr Asn Leu Pro
          35                      40                      45

Glu Ile Leu Arg Phe Leu Phe Asn Gly Phe Leu
          50                      55

```

```

<400> 555
Leu Gly Arg Phe Ser Leu Ser Cys Lys Ser Gly His Ser Arg Gly Gln
      5                                10                                15

Pro Gln Leu Gly Ala Thr Ala Gln Gly Lys Val His Met Gly Leu Ser
      20                                25                                30

Thr Ala Gln Gly Ser Ile Gln Asp Ile Lys Val Pro His Ser Ile Asp
      35                                40                                45

Leu Val Ala Lys Lys Lys Lys Gln Thr Leu Ile Ser Phe Cys His Pro
      50                                55                                60

Ser Asp Pro Leu Glu Leu Leu
      65                                70

```

```

<400> 556
Asn His Pro Glu Gln Gly Ser Ser Thr Pro Arg Pro Gln Thr His Thr
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Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr
          20                      25                      30

Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly

```



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<210> 557
<211> 54
<212> PRT
<213> Homo sapiens
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```
<210> 558
<211> 77
<212> PRT
<213> Homo sapiens
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<400> 558
Asn Asp Arg Asp Arg Asn Ser Asn Lys Val Ile Xaa Lys Ala Asn Leu
      5                                10                        15

Ile Tyr Phe Thr Asn Leu Thr Ser Cys Leu Ser Val Gln Asn Gln Thr
      20                               25                       30

Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His
      35                              40                      45

Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys
      50                             55                     60
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<210> 564
<211> 64
<212> PRT
<213> Homo sapiens
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Glu Arg Asp Gln Cys Leu Phe Leu Leu Leu Cys Tyr Gln Ile Tyr Thr
20 25 30

His Met Asn Leu Pro Leu Ser Ser Gly Ser Gln Leu Trp Leu Ala Pro
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<210> 565
<211> 57
<212> PRT
<213> Homo sapiens
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Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu
35 40 45

Tyr Ala Val Ser Ser Xaa His Asn Val
50 55

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<210> 566
<211> 55
<212> PRT
<213> Homo sapiens
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<400> 566
Ile Leu Leu Glu Phe Phe Arg Asn Gln Arg Gly Ser Leu Asn Pro Arg


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<210> 567
<211> 51
<212> PRT
<213> Homo sapiens
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<210> 568
<211> 75
<212> PRT
<213> Homo sapiens
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<400> 568
Lys Val Gly Glu Tyr Ile Leu Gln Ser Leu Leu Arg Ile Arg Lys Ile
          5                      10                      15

Tyr Val Ala Phe Asn Ser Val Pro Ser Thr Cys Leu Leu Ala Ser Leu
          20                      25                      30

Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr
          35                      40                      45

Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp
          50                      55                      60

Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu
          65                      70                      75

```


<210> 569
 <211> 4809
 <212> DNA
 <213> Homo sapiens

<400> 569

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<210> 570

<211> 951

<212> DNA

<213> Homo sapiens

<400> 570

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ggtaatttat aaagaaaaga ggtttaatga ctacagttc cgcatggctg gagaggcctc 540
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aggagagaac gagtgagggg ggagactgcc acaaactttt tttttttgag acaagagtct 660
ggccctggtg cccaggctgg agtgacgtgg catgatctca gctcactgca acctctgcct 720
cacaggttca agcaattctc atgcctcagc ctccgcata gctgggacca caggatgca 780
ccaccacacc tagctaattt ttgtagtttt agtagagatg gggctctcact atgttgctca 840

```


ggctgggtcta aaactcctgg gctccagcaa tccgcctgcc ttggcctccc aaagtgctgg 900
 ggttacaggc ataagccacc acatccagcc tgccacatac ttttaaacta t 951

<210> 571
 <211> 819
 <212> DNA
 <213> Homo sapiens

<400> 571
 cagcttaaaa atgggtttctt gaaatcagtg attagcattc actcaccagt acccctacta 60
 aggggtaggc actggtttgt actcctggga atacaggagt acaccagaat ttatttctgc 120
 ttattgcttt tggtgcaa at gccgtggctt catctgagga attctagaat tcagaggggtg 180
 tagccctcca ctctgctgtc ttgctatctg ctctcattgc atccgtttaa cctgcattct 240
 gaaagatgtt tctcagggtt ttctctgacg attttcttct tttctgattc tgacaatgtt 300
 ttaaatacatt gtactgtggg tatcatttct ctgcatttat tttaccatc ttcctttgta 360
 acttgctcta ttgtctttta atttctgcct gttctttatg gctttcaact tcataaataa 420
 catgttttct caaatctctt tgtgaattcc agagagggcc aggcacgggtg gctcacatct 480
 gtaatcccag cactttgggg aggctgagac ggggtgatca cttgaggtca ggagtttgag 540
 accagcctgg ccaacatggt gaaatcccg ttcactaaaa atacaaaaat taccaggga 600
 tgggtggcggg cgcctgta at cccaggtact cgggaggtg agggaggaga atcgcttgaa 660
 cctgggaggg tgagggagga gaatcgcttg aaccggggag gcagaggttg cagtgaaccg 720
 agatcatgtt gctgcactcc agcctgggtc acagagcaag actctgcctc aaaaacaaac 780
 aaataaacia acaaacaaac aaaacagaga gattttgct 819

<210> 572
 <211> 203
 <212> DNA
 <213> Homo sapiens

<400> 572
 tatagaatac tcaagctatg catcaagctt ggtaccgagc tcggatccac tatttacggc 60
 cgccagtgtg ctggaattcg cccttagctc ggatccacta gtccagtgtg gtggaattcc 120
 attgtgttgg gcccaacaca atggagccac cacatccagc ctgccacata cttttaaact 180
 atcaggtctc atgagaactc atg 203

<210> 573
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 573
 Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg
 5 10 15
 Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
 20 25 30
 Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
 35 40 45
 Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
 50 55 60
 Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala


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<210> 574
<211> 62
<212> PRT
<213> Homo sapiens
```

```
<210> 575
<211> 76
<212> PRT
<213> Homo sapiens
```

```

<400> 575
Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
      5                      10                      15

Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
      20                      25                      30

Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly
      35                      40                      45

Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
      50                      55                      60

Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
      65                      70                      75

```


<400> 578


```

<400> 583
Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
              5              10              15

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
              20              25              30

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly

```


35 40 45

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
50 55 60

<210> 584
<211> 76
<212> PRT
<213> Homo sapiens

<400> 584
Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
5 10 15
Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
20 25 30
Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
35 40 45
Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
50 55 60
Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
65 70 75

<210> 585
<211> 50
<212> PRT
<213> Homo sapiens

<400> 585
Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu
5 10 15
Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp
20 25 30
Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu
35 40 45
Leu Phe
50

<210> 586
<211> 60
<212> PRT
<213> Homo sapiens

<400> 586
Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly


```
<210> 587
<211> 1408
<212> DNA
<213> Homo sapiens
```

```
<210> 588
<211> 81
<212> PRT
<213> Homo sapiens
```

```

<400> 588
Met  Pro  Gln  Lys   Gln  Gln  Asn  Ser  Gln  Thr  Glu  Ala  Lys  Tyr  Arg  Ala
                        5                      10                      15

Leu  Gln  Phe  Arg  Gln  Tyr  Asn  Lys  Ser  Val  His  Glu  Val  Asn  Leu  Lys
                        20                      25                      30

```



```
<210> 589
<211> 157
<212> PRT
<213> Homo sapiens

<400> 589
Met Thr Met Cys Leu Cys Val Ala Pro Met Gly Arg Ala Thr Arg Met
          5                      10                        15

Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu
          20                      25                        30

Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu
          35                      40                        45

Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro
          50                      55                        60

Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg
          65                      70                        75                        80

Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile
          85                      90                        95

Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser
          100                     105                       110

Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp
          115                     120                       125

Val Asp Val Lys Ile Thr Gln Leu Gln Leu Leu Ser Leu Lys Met Gly
          130                     135                       140

Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn
          145                     150                       155
```

<210>	590
<211>	347
<212>	PRT

<400> 590

Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His
260 265 270

Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val
275 280 285

Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile Gln Ile
290 295 300

Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg
305 310 315 320

Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser
325 330 335

Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
340 345

<210> 591

<211> 565

<212> DNA

<213> Homo sapien

<400> 591

actaaagcaa	atgaacaagc	tgacttgcta	gtatcatctg	cattcattga	agcacaagaa	60
cttcatgcct	tgactcatgt	aaatgcaata	ggattaaaaa	ataaatttga	tatcacatgg	120
aaacagacaa	aaaatattgt	acaacattgc	accagtgctc	agattctaca	cctggccact	180
caggaagcaa	gagttaatcc	cagaggtcta	tgtcctaata	tgttatggca	aatggatgct	240
atgcacgtac	cttcatttgg	aaaattgtca	tttgtccatg	tgacagttga	tacttattca	300
catttcatat	gggcaacctg	ccagacagga	gaaagtactt	cccatgttaa	aagacattta	360
ttatcttggt	ttcctgtcat	gggagttcca	gaaaaagtta	aaacagacaa	tgggccaggt	420
tactgtagta	aagcatttca	aaaattctta	aatcagtgga	aaattacaca	tacaatagga	480
attctctata	attcccaagg	acaggccata	attgaaggaa	ctaatagaac	actcaaagct	540
caattggtta	aacaaaaaaa	aaaaa				565

<210> 592

<211> 188

<212> PRT

<213> Homo sapien

<400> 592

Thr	Lys	Ala	Asn	Glu	Gln	Ala	Asp	Leu	Leu	Val	Ser	Ser	Ala	Phe	Ile
1			5					10						15	
Glu	Ala	Gln	Glu	Leu	His	Ala	Leu	Thr	His	Val	Asn	Ala	Ile	Gly	Leu
		20					25					30			
Lys	Asn	Lys	Phe	Asp	Ile	Thr	Trp	Lys	Gln	Thr	Lys	Asn	Ile	Val	Gln
		35				40					45				
His	Cys	Thr	Gln	Cys	Gln	Ile	Leu	His	Leu	Ala	Thr	Gln	Glu	Ala	Arg
	50				55				60						
Val	Asn	Pro	Arg	Gly	Leu	Cys	Pro	Asn	Val	Leu	Trp	Gln	Met	Asp	Val
65					70				75					80	
Met	His	Val	Pro	Ser	Phe	Gly	Lys	Leu	Ser	Phe	Val	His	Val	Thr	Val
			85					90					95		
Asp	Thr	Tyr	Ser	His	Phe	Ile	Trp	Ala	Thr	Cys	Gln	Thr	Gly	Glu	Ser
			100					105					110		

<223> n = A, T, C or G

agncctgctgn	tctgtnccctn	tatgtggctt	catnntgagg	acaanagtng	cactgaggct	60
tgngnatgcc	aggcaaggnc	aagctggctc	aaaaagcatc	caccacctc	tgnaanggg	120
atgccangag	cangtgcacc	agtcaccaact	angagnccn	ggcatgntac	atcttcttcc	180
acccctnaaa	ntttgngcta	caangnccat	ttttctttt	ctcttaagg	ncnctggct	240
tc						242

<211> 535

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (535)$

<223> n = A, T, C or G

accagttgga	tactgtctaaa	nagatatatta	tgcagcctca	tatgttaagt	cgtatatttt	60
gaaagctttt	taaatttttt	ctttaagaag	attttagatg	cttatcactg	agtaccagag	120
ggatgtaggc	tgatgccctt	atcaacaaag	tcagggactg	tggcacacaa	ggattgacta	180
ctgcagacac	ggccacaatg	ctacctctag	agggcctgaa	tccccctgcc	ctctctggtg	240
gggagaagg	ctggcagagc	catttagcatg	ggctccggcc	aatcctggcc	actttgacac	300
tcctggtgct	gaccacagggt	cctggaggaa	gggatgaggt	gggcagtaga	gatgctcagg	360
gcagttggccc	ctttccatct	acactggaac	tatttcagta	ttttaccacc	aattcagcca	420
ttccctttgtg	cgctggctga	acatcagccc	tgctccagggt	ctcagtttcc	cctttgtaaa	480
gggaaaqctc	tggattcagg	qagtgatqaa	qaggtcatca	tqgtcttgag	aattc	535

<211> 257

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (257)$

<223> n = A, T, C or G

tttcnatacc	caaaantacc	ccatattang	accanacatt	tgtctnggaa	aaattaccat	60
tntntaacnt	ttgggccacc	tgagannaaa	tgggtgtaat	ncatgataag	atggancagn	120
attnctctta	agatnngatn	agaccccggt	tttcacggaa	catatccaag	nacccaatag	180
gnaacaagcc	acggngngag	tcacaaacat	atattcttta	ctctcataat	ccgtnncaca	240
naactnttgn	acttgac					257

 $\langle 211 \rangle$ 222

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$

<221> misc_feature
 <222> (1)...(222)
 <223> n = A,T,C or G

<400> 598
 nntggntacc gtcnaaaactt nnccttggtac ccgagctcgg atccactagt ccagtgtggt 60
 ggaattccat tgtgttgggc tataagctgt aatagtggag ncgtgctngg ttcattgcan 120
 nagnccctcc gcanncacnc ttggnacaac ctgtgagnag gcataaatt attcacataa 180
 tcactactgc atgaanctga ctcaaacgca tccacntaca cc 222

<210> 599
 <211> 238
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(238)
 <223> n = A,T,C or G

<400> 599
 gcatgacatc ancgatgtnt ttggnnacct ganattngct aaaactngng natgccgggn 60
 atgnaggttt ggtantgatc tatgcactca catctcatgg ggacgtttca tgtggagtgn 120
 tcgacaangt tgctgnancn gagaagtgat gatctcagtt gaaaggggtca tgtgaataca 180
 cnttacactt gaaaaaagaag cacattggga atatcacgaa acgnccacca acatcctg 238

<210> 600
 <211> 232
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(232)
 <223> n = A,T,C or G

<400> 600
 cgaactatatt agactaccta ggaaaattat tttagtatca gaagaatatc aggggtgtag 60
 tactcatcag agctaaatga gagcgcttta aaaatgtag tttgtcttcc gccatttcta 120
 cagaaagctg caatttcagg ttttcaacct aataggtgat atttaanaaa aaaaaaaagc 180
 aatcgcaaat agccccactg cttttacaaa tcattttttc cccaacacaa tg 232

<210> 601
 <211> 547
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(547)
 <223> n = A,T,C or G

<400> 601
 cattgtgttg gggaaaaaat gatttgtata agcagtgggg ctatttgca ttgctttttt 60

106230 = 1055660

tttttcttaa	atatcaccta	ttaggttgaa	aacctgaaat	tgcagctttc	tgtagaaatg	120
gcggaagaca	aactaacatt	tttaaagcgc	tctcathtag	ctctgatgag	tactacaccc	180
ctnatattct	tctgatacta	aaataathtt	cctagtgtag	tctaaacttt	tttaaaaaga	240
catgtaatcc	gcggagttag	taactcaaaa	cgagtgcac	tnggaagtat	cgcagccgtt	300
nctggatnaa	attcccagct	tgctngcttg	ctnagccggg	gggcggtnaa	aaaaacatct	360
gcagcccngg	ggnaaaaacc	ttcgcatgtt	tcttacgtgt	ttacgttatt	ttatttccct	420
nnagcaaggc	nggganttg	ggactcgaaa	tggtacagtt	gggctgggga	tcgcccttgt	480
tacataaaaag	ncgtccagaa	gagggacggt	tacaggcngg	ganctccaaa	ggtcagtcct	540
tgccatt						547

<210> 602

<211> 826

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(826)

<223> n = A,T,C or G

<400> 602

cggggggnnt	tacgtctctc	tggaacgttt	tattgtacca	gggcgatccc	agcccaactg	60
taccattcga	gtccctactc	ctgccttgct	ctagggaaat	aaaataacgt	aaacacgtaa	120
gaacaatgcg	aaagcgtttt	cttccctagg	ctgcagattg	tcttcttcac	cgcccctgct	180
tagctagcta	gctagctggg	aattttaatcc	agaaacggct	tgcgatacct	cctagatgca	240
ctcgttttga	gttacaaaact	ccgcggatta	catgtctttt	taaaaaagtt	tagactacac	300
tagggaaaat	tatttttagta	tcagaagaat	atcagggggt	gtagtactca	tcagagctna	360
atgagagcgc	tttaaaaaatg	ttagtttgct	ttccgccatt	tctacagaaa	gctgcaattt	420
caggttttca	ncctaatatg	tgatatntaa	gaaaaaaaaa	acaatcgcan	atagccact	480
gctttttacaa	atcatttttc	tcttctagg	atagcctgtc	aggtggccta	atgtattttt	540
gacatctcta	ggaatttttaa	tagaccagaa	atgggtgcca	gagatatgcc	tgcactaatc	600
ttaagtgggg	atttatgtat	ttctcaanca	agtgattaaa	gcaaaactag	gcacgaatga	660
aatcaagatc	tttaggccag	aatcatgaa	nanttttana	attattttan	gaatctgtgg	720
cttctcttct	taaaatngaa	aaaaaaattg	tttaaacccta	naaggtctga	ataccaagc	780
nccctgaacn	anagaacaan	gccggagcac	cccctcccaa	atcccc		826

<210> 603

<211> 817

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(817)

<223> n = A,T,C or G

<400> 603

nnangacttt	tgtggtnnta	tacaattntt	ttttctattt	ctatgaagag	aaagccacag	60
agtcctaaaa	taattctaaa	actcatcatg	actttcttgc	ctaaaagatc	ttgatttcaa	120
tcgtgcctag	ttttgcttta	atcacttgct	tgagaaaatac	ataaatcccc	acttaagatt	180
agtgcaggca	tatctctggc	acccatttct	ggttctatta	aaatttctag	agatgtcaaa	240
aattacatta	ggccacctga	caggctatac	ctagaagaga	aaaaatgatt	tgtaaaagca	300
gtggggctat	ttgcgattgc	tttttttttt	tcttaaatat	cacctattag	gttgaaaacc	360
tgaaattgca	gctttctgta	gaaatggcgg	aagacaaact	aacattttta	aagcgcctc	420

athtagctct	gatgagtact	acacccctga	tattcttctg	atactaaaat	aattttccta	480
gtgtagtcta	aactttttta	aaaagacatg	taatccgcgg	agtttgtaac	tcaaaacgag	540
tgcatctagg	aggtatcgca	agccgtttct	ggattaaatt	cccagctagc	ttgcttgctt	600
agcaggggcg	ggnaaanaag	acatctgcag	cctagggaag	aaaacctttc	gcattgttct	660
tacgtgttta	cgttatttta	tttctanaaa	caaggcngaa	ttgggactcg	aatggttcag	720
ttggggtggg	ggatcccctg	gtncataaaa	ngtcanaaag	anggtacagg	cggaacncca	780
agggtcgctc	tgcatttana	ctcggaattt	tggtgcc			817

<210> 604

<211> 694

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(694)

<223> n = A,T,C or G

<400> 604

cttttcaa	at	ctttttt	nct	cttctag	gta	tancct	gtca	ggtggc	cctaa	tgtaatt	tttt	60
gacatct	cta	ngaatt	tttaa	tagaacc	caga	aatggg	tgcc	agagata	tgc	ctgcact	aat	120
cttaagt	ggg	gatttat	gta	tttctca	agc	aagtga	ttaa	agcaaaa	acta	ggcacg	attg	180
aaatca	agat	cttttag	gca	anaaag	tcat	gatgag	tttt	agaatt	at	taggact	ctg	240
tggcttt	tctc	ttcatag	aaa	tagaaaa	aaaa	aattgt	tataa	aaccaca	aaaa	ggtcct	gaat	300
agccaaa	agca	acactga	nc	aaaaga	acan	agcagg	gaag	caacaca	acta	ccnga	attca	360
aattata	acta	ccagggt	gta	gtaacca	aaaa	cagcatt	ccta	ttggcata	aaa	atagaca	acca	420
agacca	atgg	ancaga	ataa	agaacccc	ac	aaataaa	atcc	atata	ntac	cgccan	ctga	480
ttatca	ataa	cnaacac	caa	gaacata	nt	taaggga	cnt	nctatt	caat	aantag	tgct	540
ggnaaaa	act	gggaa	atcca	tatgcaga	aaa	naatga	aaact	agaccc	ctat	ccctcac	cat	600
acgcaa	annt	caacttc	cgga	atggg	attac	aaaact	ttaag	acattcc	aac	ccaagaa	act	660
atnaaan	cta	ctatta	agaa	aacagat	cnc	nccc						694

<210> 605

<211> 678

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(678)

<223> n = A,T,C or G

<400> 605

taaaaat	cta	gactac	acta	ggaaatt	att	ttantat	cag	aagaata	tca	ggggtg	tagt	60
actcat	cana	gctaa	atgag	agcgct	tttaa	aaatgt	tagt	ttgtct	tccg	ccatttt	ctac	120
agaaag	ctgc	aatttc	caggt	tttca	accta	ataggt	gata	tttaaga	aaaa	aaaaaa	agca	180
atcgcaa	ata	gcccc	actgc	ttttaca	aat	cttttt	tct	cttctag	gta	tagcct	gtca	240
ggtggc	cctaa	tgtaatt	ttt	gacat	ctcta	ggaatt	tttaa	tagaacc	caga	aatggg	tgcc	300
agagata	tgc	ctgcact	aat	cttaag	tggg	gatttat	gta	tttctca	agc	aagtga	ttaa	360
agcaaaa	acta	ggcacg	attg	aaatca	aanat	cttttag	gca	agaaag	tcat	gatgag	tttt	420
anaatt	at	taggact	ctg	tggttt	tctc	ttcatag	aaa	tagaaaa	aaaa	aaattg	tata	480
aaaacc	acaa	aaggtc	ctga	atagccc	aaa	gcaac	actga	acaaa	angaa	caaagc	cagga	540
agcaac	acac	taccgga	att	caattat	act	accaag	gtgt	antaac	caaa	acagc	attct	600
attggg	cata	aaataga	acca	aagacc	cagt	ggaaac	agaa	taaaga	ancc	caaaata	aaat	660

678

```
<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G
```

```
<210> 607
<211> 22
<212> DNA
<213> Artificial Sequence
```

```
<400> 607
ccatgtgggt cccggttgtc tt                22
```

<220>
<223> Primer

```
<400> 608
gataggggtg ctcaggggtt gg                22
```

<220>
<223> Primer

<400> 609
gctggacagg gggcaaaagc tggggcagtg aaccatgtgc 40

$$\begin{aligned} \langle 210 \rangle & 610 \\ \langle 211 \rangle & 27 \end{aligned}$$

<210> 615

53

<211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 615
 gcactcccag cctcccacaa tactggcctg gacggttttc tctatc

46

<210> 616
 <211> 1350
 <212> DNA
 <213> Homo sapien

<400> 616
 atgcatcacc atcaccatca catcataaac ggcgaggact gcagcccgca ctgcagccc 60
 tggcaggcgg cactgggtcat ggaaaacgaa ttgttctgct cgggcgctcct ggtgcatccg 120
 cagtgggtgc tgtcagccgc aactgtttc cagaactcct acaccatcgg gctgggcctg 180
 cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta 240
 cggcaccag agtacaacag acccttgctc gctaacgacc tcatgctcat caagttggac 300
 gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgccctacc 360
 gcggggaaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc 420
 gtgctgcagt gcgtgaacgt gtcggtggtg tctgaggagg tctgcagtaa gctctatgac 480
 ccgctgtacc accccagcat gttctgcgcc ggcggaggggc aagaccagaa ggactcctgc 540
 aacggtgact ctgggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc 600
 ggaaaagccc cgtgtggcca agttggcgtg ccagggtgct acaccaacct ctgcaaattc 660
 actgagtggg tagagaaaac cgtccaggcc agtattgtgg gaggtggga gtgcgagaag 720
 cattcccaac cctggcaggt gcttgtggcc tctcgtggca gggcagctctg cggcgggtgtt 780
 ctggtgcacc ccagtggggt cctcacagct gccactgca tcaggaacaa aagcgtgac 840
 ttgctgggtc ggcacagcct gtttcatcct gaagacacag gccaggtatt tcaggtcagc 900
 cacagcttcc cacaccgct ctacgatatg agcctcctga agaatcgatt cctcaggcca 960
 ggtgatgact ccagccacga cctcatgctg ctccgcctgt cagagcctgc cgagctcacg 1020
 gatgctgtga aggtcatgga cctgccacc caggagccag cactggggac cacctgctac 1080
 gcctcaggct ggggcagcat tgaaccagag gagtctctga ccccaaagaa acttcagtgt 1140
 gtggacctcc atgttatttc caatgacgtg tgtgcgcaag ttcacctca gaaggtgacc 1200
 aagttcatgc tgtgtgctgg acgctggaca gggggcaaaa gctggggcag tgaaccatgt 1260
 gccctgcccg aaaggccttc cctgtacacc aaggtggtgc attaccggaa gtggatcaag 1320
 gacaccatcg tggccaaccc cgaattctaa 1350

<210> 617
 <211> 449
 <212> PRT
 <213> Homo sapien

<400> 617
 Met His His His His His Ile Ile Asn Gly Glu Asp Cys Ser Pro
 1 5 10 15
 His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe
 20 25 30
 Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His
 35 40 45
 Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu
 50 55 60

Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu Ser Val
 65 70 75 80
 Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu
 85 90 95
 Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile
 100 105 110
 Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser
 115 120 125
 Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys
 130 135 140
 Val Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp
 145 150 155 160
 Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln
 165 170 175
 Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly
 180 185 190
 Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val
 195 200 205
 Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile
 210 215 220
 Glu Lys Thr Val Gln Ala Ser Ile Val Gly Gly Trp Glu Cys Glu Lys
 225 230 235 240
 His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val
 245 250 255
 Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His
 260 265 270
 Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu Phe
 275 280 285
 His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe Pro
 290 295 300
 His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg Pro
 305 310 315 320
 Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro
 325 330 335
 Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln Glu
 340 345 350
 Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile Glu
 355 360 365
 Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu His
 370 375 380
 Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr
 385 390 395 400
 Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Trp Gly
 405 410 415
 Ser Glu Pro Cys Ala Leu Pro Glu Arg Pro Ser Leu Tyr Thr Lys Val
 420 425 430
 Val His Tyr Arg Lys Trp Ile Lys Asp Thr Ile Val Ala Asn Pro Glu
 435 440 445
 Phe

<210> 618

<211> 385

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(385)

<223> n = A,T,C or G

<400> 618

ctgtgctgag	aacccaaaagc	tatgancact	gctttttccaa	atgtccataa	naccaacatt	60
tttatcacta	ccaccatcac	ctgggagctc	nttagaaaagc	tagtctcccg	ggcaccaccc	120
tggcctactg	aacctaatgt	gcatttaaca	agattnacgt	ngaaatctgc	aaagcacagg	180
ggcngataac	agtaccacct	gntctggttc	ctanccccan	gacccttaca	gtctaactgg	240
gacacaaggg	cttnaaatca	aattgcctat	cattaagata	tacaanganc	ntgagaaact	300
gctncactta	tntattaagg	ngctctaaga	cttagaaaacn	aaangcantg	ctgagangat	360
tcaaatatga	ngggggncac	tttnc				385

<210> 619

<211> 869

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(869)

<223> n = A,T,C or G

<400> 619

gatatcccg	gaattcgcg	ccgcgctcgac	ctctacttgt	ttagacataa	atgcagtcta	60
gcattaaaga	tccttttaaaa	aaatgttttc	ccaatggtta	aaagacaagc	tcaaataaat	120
gaactctcat	acatatgcc	aaattgatga	gtagataaat	atttcagtag	gtagttacta	180
gctttctgtg	tatgagtaaa	catatgggag	aaatttaaaa	cactaaagta	gactcaatga	240
aagcatagta	tcctatgtat	tcgtttttca	gaaatgtcta	atgaaggaag	gaaacaatga	300
atgaatgcc	ttattcctct	tagagtgctg	ggacatgggt	ttgcctgaaa	acttcatgtg	360
aattttatat	tttgctacac	attacaccca	tcttagactt	atacgtataa	gacataaggc	420
atatcttatg	tcttacatgt	ataataatct	aagcagaaca	aaaaataacg	aaatattttc	480
ttccccaaat	ttttgagaca	gatggatttt	ccggaaaagat	gtgttttagct	tttaatcctg	540
tggttttgtg	taccacctgg	cacactagag	tggtgctcta	attcagtgag	ttgtaactct	600
gggtgaacag	tggaataact	agggtacatt	ttaaaaatgc	taatgctcgg	gcctcgctga	660
agaccaaatt	aattggaatc	tctgngggng	gnattgatct	ttttataatc	tttctanang	720
attctaattg	gcttccaggg	atgaaaaccn	ctgntggagc	tnggaacctt	ccttttagttt	780
ggagaaaccc	cgatgagggt	ntnttaggcn	ccgcctnttt	ttggcctggg	cttccccctt	840
tatntntntt	tggaanggnc	cnaattttt				869

<210> 620

<211> 339

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(339)

<223> n = A,T,C or G

<400> 620


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<210> 621
<211> 267
<212> DNA
<213> Homo sapien
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<400> 621
ggggngcatg gtcccnngta gccaaagtaca tggctcctcct ggctcctgac gctacgggtc 60
ttcctcgtgg cgtagactgc cagcttccga gaccctcag cccctccccg cttttctcca 120
ccccaggagg caatcagtag cgagctactg cctcgccac aacctcccag caggatngcc 180
cgcggttttc aatctgcgaa aggaggaccg ccnagccaga aatgcnagc cnagcgatca 240
ctgccacgcc nagecnagcg ctcgtagc 267
```

```
<220>
<221> misc_feature
<222> (1)...(847)
<223> n = A,T,C or G
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<210>	623
<211>	681
<212>	DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(681)

<223> n = A,T,C or G

<400> 623

aaaactgtac	tcgcgcgctg	catgtcgcaca	ctagtggatc	caaagaatcg	gcacgagcga	60
aaangctcan	gcagcccggc	tggccgcgcg	cgctcctccc	cccaggaaag	ccaangtgga	120
ngctgatgtg	gctgcangag	ctcgtttcac	agccctcan	gtgganctgg	ttgggccgcg	180
gctgccangg	gcggaagtgg	gtgtcccca	gtctcagccc	caaggetgcc	cctcaciaag	240
cactgggtgt	ttgcctccac	tgccaccttg	ggctccgaac	ccgctcccct	gctgtggang	300
cccaccgtgg	gaatccaggt	cccaggtgg	actgcctgcc	ttgcctcac	tgcccactct	360
gcccacactt	ccctgcctag	anaccgggaa	ggggtgtgt	cggtantgg	gcccactgg	420
atgtggcagc	accgactgtg	ggggtggacc	tggccttggc	gggtgcaaaa	gtggggggcc	480
ngggaaaaagc	acctgaagtg	gccctgaaaa	atccccctt	aattttcccc	caatttgggg	540
ctcnaacaaa	aggaaattgc	tgaagccaan	ggtaccaagg	tcacccctaa	ggccaggggtg	600
aaaaggtccc	aaaattccaa	tnccacnt	ttgggtctnc	ctcttggaac	cccggcccc	660
tctcntgaan	ttttaaaaaa	n				681

<210> 624

<211> 661

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(661)

<223> n = A,T,C or G

<400> 624

attggtctta	ctgtaccacc	gggtggaaat	cgatggccgc	ggcgtctaaa	tatccgattt	60
tttttttttt	tcctcttctg	actgtccatg	gacaaatgaa	actaacttaa	tctaactaaa	120
aaacacaact	atattttgaa	gattttctat	ctgcactcaa	ggacactttc	cacncggttg	180
ttgttacctt	ttggtcttgt	ctctgaacat	gaaattnatc	tcaagggatt	ngatttctgg	240
acctcctatt	cctgctatgg	gtttgatatt	tcttgggctc	cagggccact	gttgcatggg	300
gntgacagnt	acctcctagc	ccatancttc	ctatcttggg	aaacaaacct	aacaactacg	360
tgtaccttcc	atagatctct	gattgagtct	cagtatncgc	ttgctcatgg	gcgattcact	420
tgaatccgtn	attggtgcc	acaatcctga	ctcatgggnn	aatggatcct	atcacgttcc	480
cctgattngc	aaccctgta	tacatanatc	taatcgcata	gaatctagcn	tnggntatgc	540
gcggctacgc	tatcagggnt	tgntaactat	ngcatggcta	cgaancctga	tcatgatcna	600
gggtcatgga	ctcttatcag	gggggttggg	ccngcttct	ttttcnnacc	ttggtaaaac	660
c						661

<210> 625

<211> 181

<212> DNA

<213> Homo sapien

<400> 625

gcaacaatca	gatcatgtta	aagtaaactct	ccattgccct	ggatcacttc	aggatttaat	60
tgtccaagga	gagcaggggt	ctcctgtgaa	aaaaaggtgg	ggaaatgttt	gagagtaaaa	120
aatacaaaa	tcaaccgggtc	gaaaatacac	cactccattc	agtgctctac	ccccataaagc	180

c 181

<210> 626
<211> 181
<212> DNA
<213> Homo sapien

<400> 626
gcaacaatca gatcatgtta aagtaaatct ccattgccct ggatcacttc aggatttaaat 60
tgtccaagga gagcagggtt ctctgtgaa aaaaagggtg ggaaatgttt gagagtaaaa 120
aatacaaaat tcaaccgggtc gaaaatacac cactccattc agtgctctac ccccataagc 180
c 181

<210> 627
<211> 813
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 627
accaagctgg agctcgcgcg cctgcaggtc gacactagtg gatccaaagt gaacgtgaag 60
gtgagcagag gagaacttgc gatggcaaag ttaaaaacaa gaggagatga tgggtcttggg 120
gtggcacagg atgttaaaaa aattctcctg tccttaagga gttactgcta tttgagtaat 180
gtgccacttc cctacatagc cttctatgca gaaatgctat atttccactt cacaaccag 240
aacgtgcatt ttattttaca tttagaggag gaacaaacaa ccagaaggca aaaactgggtg 300
cattattttt tgcaattctc ttggaaagag ttcgttttta acttctgctc agacagcaca 360
caactactgg gaatatattt taatttcaaa tctgatgtgt gacatctggg aactcattta 420
ttgctaataga agttttcaca ggaagcagca gtcaccagta gctcatctta tttttcagtt 480
ggcaaagtgt tgtttacctt ttattggcct gcatcgggtg ctcttatcac aggatattta 540
attagaaaac gcaagtagcc taacatagaa nagaaatgga gtggtagata atagtagata 600
gaatggctaa atatttttat tacagtgatg taatatcact gnaattttatg gttaaaaatt 660
atgtaatact caaaaaggaat tctcagactg gcgaaacagc tggnaacag ctntcacagg 720
gctttanact cctnttgagc tttccccctg ntggacttta gtcttccttt tacncccgna 780
gttnccattn nttaccaatt gtnccgggaa ana 813

<210> 628
<211> 646
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

<400> 628
tttggngngn ggtgtctcnt ttgggtggac tttttgggtc gtagggcccc aaggccgtta 60
atcccgtaat aacggaagac gaagaagagt cagaagagtg cttctataag gatcgggacg 120
agactacctt agaggaataa aggaaaaaag cagaggagga agagtggtag aaggagtcag 180
aagaaaccca cacgtcggtt tgaacctgga gccttatcaa aaaggtctag ataaacgata 240


```

gcgatctcga tatcgagctc aagaggtagg tttagagact tctcgtcctc gagagcgaaa 300
tggaagatct cgacgacgat aagaagttaa agtgtagagg gtgcttgagg agcgcgtgga 360
aggattctgc ggagggaccc atcgacgtag agacttgaag gcctactaag gtccacaaga 420
agcccggtc tttctccgaa tggtcggagc gtacagtatg cgacgtcgat cggcagacaa 480
gctggcggtg gactcgaagt gttcgggcga atcgacttat aatagtcgcg cgctagtaac 540
gtaggaacac gaagagtagt cgaaagaaaa cgtttagtga gggaaaagat tagggaaaaa 600
ggagaggctt aataactaag acacttgag cctaggccaa cgcgaa 646

```

<210> 629

<211> 617

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(617)

<223> n = A,T,C or G

<400> 629

```

gccccnccc ccctcctngg gcttatnggg acagaccac gtagtactct aaatcttctc 60
ctacgccgga caacggaccc tataccaatt cgaatcttgg aactccgac cgccggattc 120
tcttccctt tcggtctccc ctttctgtcg gtaccctcc ctagtcgtct cctacacctt 180
cgtaccgtcg atatatagtc gccgcggact agcctattta ggtgtcctag actcgttatt 240
gatccactca ttagtctagt actatgcgtc acgtatctta gttgcctaag agggagatta 300
aatcctccac aagttccgac gaattcctgg actctcgtac tagcaaacctt tcttatgagg 360
cttccttgta tatcttctgg atgtttctcg tgtcccggtc ctccgctact actagagctc 420
cttgccctat ctctagaagt agaggactct cgggttcgtt ctccaaatct agcgtctagag 480
ctatcgctac ccgctcgatt cccccagcgg aatcttgaaa cctgaggtag tacacaaacc 540
ctcncatct tccctcgggt gctccttctt ctcaccccc cttcccgctt tctcgggaan 600
gaatctactt tancctc 617

```

<210> 630

<211> 644

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(644)

<223> n = A,T,C or G

<400> 630

```

cnntcggcnt gggttttntt ctgagnnncc ccccccccc cccccccaaa cttacaccca 60
ccaaacactt tccgccccct acctaggaga cattagaagg gtttaggctt cggcgtatag 120
taaagtcttc tacctcgga gtagagaatt cggtatttaa attcagggtt agaggctcgc 180
tcgttagatt tatagtttag gtttagaatc ggaaaccttc gatcttctt agaagggtaa 240
taagtgaggc cctaaatccg tctaaccaag gcgttaagggt ccgtacctaa acctagtctt 300
atcttctatc aggcgcacca atatatagtag gttctacttt cgtataggcc ttaaggaata 360
gttcggtagt tatcgaaggc actcctctct aggctaggct tttctcagtc ttagtactcc 420
gggaccgtcg tcgcanaaat atcgatggac ggtaggtatc tccgcgttac gcgtcgggct 480
agggatatag agcgaattat cggcgagagg cggtcgtan gaatcgggtat caatatgntg 540
ttctttaccc tacggatatc ggcagaaaac ataaaacctt ctnaccangg ataagggtatt 600
atcggacccc taaaataaca gtaacattta gantactagt accc 644

```


<210> 631
 <211> 526
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(526)
 <223> n = A,T,C or G

<400> 631
 ccntcggcctt ggggtttttt ctgagccccc cccccccccc cccccccccc cccccccggc 60
 cccatagccc caccggnccc acccaaattt taacaaaata aatntaccta tcgntcacct 120
 atcccnegta tcngtaggt cggtagcggg accgngatc ncnacgattn ttcgggtcgt 180
 cncctttaan acggncccggt agccnccgga anaaatacta cgagngactc taatntagca 240
 anaccgcggt tcnattanta gcaccccttag tcttccaatg ncgnggattn ngaatccttn 300
 naagtattcg ggtagaacgg gtcccgggtc cccgcctct ttncaattaa cgccgggtac 360
 aaantcgggt tctaaattcc ncacgaattt ngncggcaac attcncgggn ccttattanc 420
 cntttccaac cccgatacnc nagctcgatc gggctttanc gaatccgggg tcnccccga 480
 ngantccggg tcctttgagt ngetctagga cggttacgac ggagga 526

<210> 632
 <211> 647
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n = A,T,C or G

<400> 632
 tttgggnggc gggngctcat ttgggtggac tttttgggtc gtaggaacct ggtatgaggg 60
 gtgttttgag tttcttcttc gtcgtctctg ggaggttcgg tttcgattga gattcgggtt 120
 cgtctttatc ttacgaggca ccctgatatt gttgcgcttt ggtttggttg tggagagttt 180
 tgtcctactc tagcgggtca tgcggatgat atgtagcctg cgtggcctga tagtgatgtt 240
 gtgagcttga gaggggagtt gtgggtgttg cgggcggagt aggaggggtt ggagcaccgg 300
 gattgggaga tatagaatca taagtgttag gtataggtcg attgagcgag ttcgtggaat 360
 tcgtgtggtc atcataatta gagtgaggat gggctctata tttcttagag gacgcacggt 420
 cgtgattcgg ggtttgatgg gtgttcttct tgtgggcacg attagcttgt tcatgatggt 480
 aaggaccata ctgtttcgaa tgaggattcg tgtcttcgga ttgttgtgga tattgtggnc 540
 tanactatct agtgtaagcc ggaggtgggt tgccttggtg gagtatccga nnttcattcg 600
 ganggtatgc gtgcggagcg gtcctttagt acattccgga aaaatgg 647

<210> 633
 <211> 630
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(630)
 <223> n = A,T,C or G


```

<400> 633
tccttcgggt tgggtttttt tctgaccccc cccccccccc cccctcggga aggcctctag    60
gctcccaccc gtctctctaa tcttcaggaa ccgatccacc caaccaactt actaatgtcc    120
tacagtaaac acccgagaat ataaacccac acctaggcct ccaatcctac cagggaagca    180
agaagccgta gtctagcgta ttacgaaccc gagatagaga cggagatact tagttttatt    240
ctctcggaat aggaaagacg actggggagg gaatataggc tagcgcgggg ataggggcta    300
tggcggatat gggggcgggg cgctctctta ttcttctata ccacgtcaat aggaatgtag    360
atatacctag atgttcccgt agaaagagac gtttagaggtc tccgaagcta taaaggagag    420
gcgcgaagaa acttcgtact ctagctttat ataggtagtc gctctagtcc cataagcgac    480
gagagatcta ctagatttcg gtatcgccgt cgtaggtatt cgaaatagtc ttcttcccct    540
tttcgatctc ctctctatac tacatggnga ttatagtcnt aagatagtca ggatattagg    600
atattagtta tatgacgttc gacgggacgg

```

<210> 634

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(647)

<223> n = A,T,C or G

```

<400> 634
ccntcggctt ggggtttttt ctgaccccc cccccccccc cctccactaa gancttaacc    60
caaccctata gtttactcgt ataggggaat cgaggagaaa taggaacgaa gagcgggtga    120
taaagagaaa gtactttcct ttatatgtta agagcttagc gtaatgactt tcgttatatg    180
gctagttgat tttatccggc gttatagggc ttagttctgg ttatctcggg tctaattccc    240
ttagtatgct cgggagttta acgaggtcac gggatagcgc gtaccctttc taaggttcct    300
ggaaagctat tcggtattta tcgcgattct cgaggtcgaa aggatcaagg atcttccctt    360
ttactaccct agtcgggtta gcggtcggtc aaaactagtg tagtaccttt acctcctcga    420
aagttatagt cgaaacaacg tattagtcga aattatagcg gatagatcga gacggttctt    480
tctcgggttc tcagccggta atccctctat ttgggggtct tctccctctt cccctttgtc    540
ttccgcctta gcttccaagg ttccctcgaa gcgaggggtt ctacttaagt cgntagcggt    600
ccttataaac cncctacagg cagacccctt tgtaaacggc tcgggggt

```

<210> 635

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(645)

<223> n = A,T,C or G

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<400> 635
ccttcggctt ggggtttttt ctgagcccc cccccccccc cccgaaactc gccttaccct    60
agatacccaa agaatagttc cactcaactt cgtctaagta aaactctaga acttccaaac    120
ataaaagact tcgcgcgggt agctacacag cctacgggaa tctcacgaat cccgattcaa    180
gtcccactct cgaccacacc ccggtatcgt cgttttccca taccaatgtc gaaaaataaa    240
ataaaatcca gtcaagcccc acggttaagc ggggtagggc taggcgaaga ggcaggaacc    300
gttcgaggcc gggggctttc aaaatacaaa acaactactt aaagtttacc ctttctaaag    360
tcgggggcaa cgggttaaagc acgcctctaa agtactactc gtttcgagaa ggggtagtca    420

```



```

tctcccgcac agagactctc gcgtatatca actcgcacgc cttctagcat tccgacggtc 480
gcccgcggct acatatcttg cggattagct ccgagggact ataggggttaa ttagtctagt 540
aaattctctt agaggatagt cggggtcgta gttaggcagt acgaggggac atggnctgcg 600
tcgtgctcta ccttgacagc atactcttat aaacatcttt ttcct 645

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<210> 636
<211> 643
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(643)
<223> n = A,T,C or G

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<400> 636
ccttcggcctt gggttttttt ctgacccccccc cccccccccc cctagcggaa aacaatcccc 60
accgagattt tattaatcgt aaaactcgcc ttcgggtacca agtcttcctc cttcccgtaa 120
cctggctccc tcctagnngc tttacgaacg tccctcctct tcttacggct cggaagtgg 180
tacggttaaa tccggaggng gggctaacga atccaaggct aactcctctt anagtttggt 240
gtccnncngt ttagtaagga tccgtggagg gcgagtattt gncccccggc ctttattnta 300
tagttcccta gtacgataaa gntaccggct atcctattac agcggataaa agttatttan 360
agggccgcag tcnccgctag acaggetaca gctagnngag gtaccgcctc cgactantcc 420
gttgnttccg acaaggngt ttcgggttaac tccacaaact cctccgccga ctctanggtg 480
gggacggcag ttccnncgt tagtgtgcgt tatagagaag ggcatttgag ttggacgtta 540
cnttttaaca taggttattc cgtttagggt cttgcgggcc cgtgggggta gtncccggc 600
gcgttnntat cggcgatttt ccgcagtttc cgtttccggn tnt 643

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<210> 637
<211> 631
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(631)
<223> n = A,T,C or G

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<400> 637
gggttntctc atttgggtgg acttttttggg tcgtaggaac cggatatgnag gagtaggagt 60
cgctgggaag actagaagtt agctacggac gattagtgtg attccactct taataacgag 120
taatcgttta cgtcgggttg gtgttttcggg gttttggaga gtaagcgtag ttgtggagtt 180
tcgcatatag gtccccctac ttcggcgatc tcgtctctctg tcggttaggt tattattggt 240
catccttcgc attagtagta gggttggtcg gataaatcga tagctattct ttagaattcg 300
tagtcggaga attcgtgtac gaagtccttt aagttcttta agttcgcgag taagacgtgt 360
acggttattt tgcgtcgac gtaggtgtcg tttacgggag tttcgtttta ggggtttacg 420
tagaacgtta ttaagcacgg taatacgata gaggattacg cgacgtattc gtcttagaac 480
gtcgattttt cgaaggcgca tttgttatcg aaggggagtc cttggagaat cgagatattc 540
caagaatatt acggagatta cagatcggaa ggctcccgag atcggacgta ttaccgggtc 600
cgcccgaaac gagtaggtat cntccggata a 631

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<210> 638
<211> 606
<212> DNA

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<223> n = A, T, C or G

ccccccccc	ctcaaccatc	nattccccac	ctcaacgcga	attacggttt	cgaaagtcga	60
caataagtc	ggtcgagtag	agggaaatcag	gggctggtan	aaaggaccac	gggcggaaaa	120
taccggtctc	cttcggggga	gcgacgtcgg	ggaaagggaa	gagagcggtc	tagttcgtag	180
gcaaacaggt	cagaaaagtt	aagggttaaag	gtcggagggg	agaggatagc	tagtacgctt	240
agttcggggc	tcggggcgcag	ggccactttc	ctctttcgcg	ttcctttact	ctgcttacga	300
gttcaggctc	cggagttccg	cgccggaggt	cgtcgcgcacg	ctaggaatgg	ggactcgctc	360
agtccccggt	tatccttcgg	gattctatgt	tttcgccgat	agacggagac	cgggtagtag	420
ggttcgcgtc	taccgccact	cgtcgccttg	atccggcccc	ctccgccttaa	gggcgatgaa	480
agattaggtg	ttagggctct	acgggacgag	gcatagggcg	ggagaagggg	ggaggggtcg	540
ggggtcgaag	ggantaagaa	atcgcantcg	cgcggggtcg	gtagganccg	aaatttttct	600
cnnct						606

<213> Homo sapien

 $\langle 223 \rangle \quad n = A, T, C \text{ or } G$

tccntcgget	tgggtttttt	tctgagcccc	ccccccccc	cccccgga	cgagaaaaca	60
atccaccct	accgcgggga	gtgggttгна	cgcttagttc	tagaatcctc	ggaatcgtec	120
tccggcggtg	gtagtccgg	cgattccgag	tatgccgaag	tgtatcgctc	cgctagagg	180
ttggtatctg	ttatcgcg	tgacgctatt	gactcggatg	cttcgaagt	agggggatag	240
gcgcatagat	acgcctccgc	ggtgtcctct	gaagtggcg	catccgtgga	cgcagcgtag	300
acagctcttg	tggacgataa	cggcttctcg	tactcctact	ccggctatta	tgtagagag	360
gacttgtttc	tgaacggata	taccattagc	gaaggggtac	cctccgctaa	cgcaggcggt	420
tctaacagtt	cttcggggc	ctccgaattt	agattgacgc	ctccgcagca	ttgtgggatc	480
ctcttcggt	agccctcttt	ataggatttc	tcttcgcgcc	cgaaagangg	ctggtcgtec	540
ccggcangta	tgtctagctc	gaacgctttg	ttactccttt	gttttcgaaa	na	592

<213> Homo sapien

$\langle 223 \rangle$ n = A, T, C or G

ctttgtggcg gtggntgtct catttgggtg gacttttttg gtcgtaggct tatccgggtn 60


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gggctcccga agtagcttag gatcgccggc tagttccggt cccgcccgtc gaaagcgcg 120
ttcggcgggc ggccccgcgt tcgttcgcgg gctttaccct catagagtgc caggtctcgg 180
ttcttacggg ttcgtcggcg atagatttta cggcgagagg tcggtatctt cgccgcttta 240
cgttcggtcg gcatctacgc ctagttcaca ggtagtttat gcgcccggagc gcgtgacgga 300
gaggttatac gggacgcgga agaaccgcct ccaaatagact agtacaggct cgttcgggcg 360
tagatctcct cgctcggtcg gcggttctta cttctagggc cgctctacgg ttttaaggcg 420
tcgttagatc ttagaaacta tactcaagtt tcagtcggaa gaaaggaagt agagagaagg 480
gtaaacgatt acctccggtt ctagcccttt ttactcgcgt aacgggagaa cggggtccgg 540
ctctcagata cgcctcgcga gacgtcgcga ttcaacttta acctccgcta gggcatccgt 600
atacggttaa cgcggtaaaa gcgacctcgg aaacctc 637

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<210> 641
<211> 649
<212> DNA
<213> Homo sapien

```

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<220>
<221> misc_feature
<222> (1)...(649)
<223> n = A,T,C or G

```

```

<400> 641
ctntgtggcg gtggttgtct cagtttggtt ggatttttgg gtcgtaggna acctggtatg 60
aggtctagtt tcttcaacga ttcttggttc agttacgcga ccctatcctt atcttacaat 120
gtcttctaca tcaggttcat caattaatat atcaattaca cattaacgac ggtgtgacgc 180
aatatgagaa agtatacatt aaggttatta tatattattc gcttaaaaag gttcctgaca 240
tgggacaact tcaccacca ttctagaagc cccctcctt gtaggacccc ctcgagttcc 300
ccattatctt agttcagttt tcatttttta accaggaggg tatcggtttt taataggtac 360
tattttgtca aacttttcag aagctttatc ttcaaataata cttgcaccat ctgtactagg 420
agcactaact attcgagtct attacagctc aacagaaaat aattgaaatt aaacaaccta 480
agtatcgtec accataaccc catcgggctc tcaccccat tcttcataag ttctagagca 540
tcctgagctc tttcctatta cccttgatgg tactcatggt ctaatacccc ccgcagttat 600
aggtccttat ggatcctatg ctaccaccgg tctaatacct tctatcaen 649

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<210> 642
<211> 645
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G

```

```

<400> 642
tccttcgggt tgggtttttt ttcgtcgcgg gttactatta tcgattgtta cttgtaaagg 60
cgatactccc accgctcacg atattagacc tgctcctcta gaagcgaacg gcgataggctc 120
tactcggccg gcgaagacgg cgaacgggta ggaggagcca tatgcaaccc taacggagat 180
tataagtact gggaaaaata ctagtattaa ggtagcgggt taagatagggt ggagagacac 240
tattcacgag cataagcact tagaaggtct tctcgaggag aggtaggcta cggactacgt 300
tccttcttcc tctagcctcg agaggagta tagatgattc gcaaaagaga atccctccta 360
tacgttgga taactagacg acgcgtcgtc gggaaatctc gccaacctta ttgcgacctc 420
caaaaggaag attgtcgttt catagaacgc taataactcg ggtcttcccg aatcatagcc 480
gcatatcgggt aagaagacgg taaaatcgcg cgattctaac aagattctgt agacttaagg 540

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ctaagcacta gaagcgatct cgattccgga tcttaagatc atactaatag ttcggtcaca 600
ccagacgacg attagccact agaagcccta ctccgtngaa accgg 645

<210> 643

<211> 586

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(586)

<223> n = A,T,C or G

<400> 643

ctttgtggcg gcggtgtctc atttgggtgg atttttgggt cgtaggaacc tggatatgcag 60
ggtcgcgccg gaattaaaag cgggatcccc aaaacgnngn ttcgcaagaa gagaagaatc 120
atagcgatag anctttcata gtacaaaggt aactaagagg aaaataatgc agattcagaa 180
ctagtgtcca aattagaact cgattaggcc aaggatccga gcctggcgct atcacttcgg 240
gacttaagct acggtagagc agtcgggtcct gaagcatagc tcccgtagga cgtaggaaac 300
tagtccggca cggaggacat actctcgagt ctcggaacgt ctatttagaa tataaacgca 360
ttaacctcag aaggcgccga cgcggttact ctctagggaa ctatttcatt ccttccggag 420
ctcccctatt tttccaacac atataccggc aaaggaaaat cttntgtcct cgggtctaaag 480
agagggaaaa aaaacgatat ctaggttcgg gtttatccat ttaaaaaanat ngacgcgact 540
actccctttc aaagggagtt tccccctagg nagagttcaa cngaag 586

<210> 644

<211> 646

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(646)

<223> n = A,T,C or G

<400> 644

ctttgtggcg gtggttgtct catttgggtg gcatttttgg gtcgtaggaa cctggtatng 60
agggtatatt gacttgtttc tcaaatecca tggatatggtg ggtggcgtgc ggggtggcgg 120
tcggttcggc gggggtgggg gtcgtcctcc aaaggagttg ctagagggtt tttagtgggt 180
ttagggcggg aagggggttag agcggagaga cgtcgtcgtg gaagcttctg gcggagcgcg 240
agaaggtagt tagcgccggt tcggaagatt ctcagaattc gagaagaggt agtggggcgc 300
ggagagagag tttctaagtc taaacgtaga ggtcgtccta gtcgggcccgg gtagtagcttt 360
taagctagag gtcgaggtcc tcgttttaggc tccgggctct tcgggcagta tcctctttct 420
cgaggaaacgg agcgaccgac gtcgtagccg gacccgtcta tccgtacgtt tagagatacg 480
ctcacctcca cgggcgtata tgcccgtata cgtataaacg cgtaatatatac tcgcgcgtaa 540
aacacgtata cactatatac acgcatcgta cggaccgtat agcgttatatac gcgcgcgcat 600
attaatttac acttatatac gcgttaacac gatatacac acnccg 646

<210> 645

<211> 654

<212> DNA

<213> Homo sapien

<220>


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<400> 647
accttacctg gtaccgggcc cccctcgag ttttttttt tccaaataca actcagattg      60
tatacgaaaa gctgataata cattgacttt tgctgttaa atcccttgag cctttgataa    120
tgattttttt tgtgttaaca attgtagtat ataaaatcgg attcaccatc cttctgatgc    180

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catattgatt agtttgattt tatggtgatg ggatcattgt gtgttaactg tattaagaag 240
aaatggattt gattgacttt gcatccattt ttatctgtgt tactttcatg ttttatttaa 300
aagcatttct ggaccagaat aagttaagtg gtataatttg ctttttacac gtttatataa 360
ttgaagttag caatgtggca aaatctctaa tggaaataaa atgcttcaga atgatgacat 420
aaatctgagc tatttcttgc ctggagaaca agtggtattc ataataattt aatagcttct 480
gagggtgttt gtcatgtga tgaaggctta tccacctgt atcaattcat gggctctgct 540
ttgtttaatg tagtcagggt gttaatacna gacttaagag tcatcctact gtgataagtg 600
gtgagtgaag attacatgtc ttangaaaaa tatactggga atatctctga cattaatggg 660
tttaaagtgt ttaaggctag gggatgatgc aatgganaan atncttccaa angtttctgg 720
ttgtttatat ttngngaagn catnaagana ccg 753

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<210> 648
<211> 383
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

```

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<400> 648
gatatcccgg ggaaatgcgg aggcctttng gcttacgtgt ttaccgcgta gggcaaagcc 60
ttgncaaat cccggccagc ggagcggcga ggggtgggac tcacgggaag ttaaacagcc 120
tcgtcggcgt cctcgaggct ccaaaaccag gctctaggcg gggacgactg cagccgttat 180
ggagggcacc gcggctacgg ccgcggctga ggctcccca ggtggagcgg tggcctggag 240
gggaatcttg atcctgggcc agccacctgt caagaggagg cggagcgtca tgcctctgga 300
agactggatg aatattctcc aggagcctga cgaaggcgaa gaagtctttg cagaggaaat 360
tgaatgctgt ctgatgctac aat 383

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<210> 649
<211> 349
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(349)
<223> n = A,T,C or G

```

```

<400> 649
cgattgtnta cnagtcttag agtaagctta agntcgntac cgagctcgga tccactagtc 60
cagtgtggtg ggaattccat tgtgttgggt cactagtaaa tggatttagc tagacanagg 120
anatttacc cttccattt agcacagtga gganaggcta nacagctagg atgcaataaa 180
aaaaatttta atgagaaatg tgtgtggtag attaatctta ttaatctcaa gttatagatt 240
aaaaatttta agtacncat aaatgccatt tgcctttgct aangntacat ttttatgaan 300
aangacntg catacnaat ganatactgg actttnggna cttgangga 349

```

```

<210> 650
<211> 306
<212> DNA
<213> Homo sapien

```

```

<220>

```


<210> 653
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 653
 cccttnnacc cattgctgga ctccaccgcg gtggcgggccg ctctanaact agtgggatcc 60
 ttncnatgag atgngcgang gaggacnnat ttgctatnct ggatggggct gantcntnta 120
 gctnctctag cancagatgg gttatcgagg aagatgactc caangggcta nantcctatg 180
 cncatcctaa aanncanctg ctgtnttcag agtacgcgac acatcatcnc tnatgcattg 240
 ntgancaaga cgggcangtg cttatcctca gcgangatgc ccttaaccan gagctcgaat 300
 ggacntatca cctnanaggt acanntnccg caccacacac cngcttgenn cctgacgctg 360
 gactggatcn cttaggccac caatnccccg tttncacat ncctgggacn ctananatac 420
 tcganggggg gcccgggtanc caattcgccc taatactgag ccttgntacg nacgctnact 480
 ngngtecta ttanaacgtt g 501

<210> 654
 <211> 710
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(710)
 <223> n = A,T,C or G

<400> 654
 gcgnctttan cncatgctgg gctccacgcg gtggcgggccg ctctacacta gtggatccca 60
 aactgagtc caccacagna aaactcanca ccaggcagac cccacaactg cagaatccag 120
 gctgcaattc acagactaat cntctagacc cacctcagta ccagatggta ccacacagct 180
 caaggnttta gggttgctg gtanactcaa tctctatctt tcaccactgc cagcctgact 240
 tcagagatcc tgnctcttg acagtctca gtggcaggca actctcagga gcctcaggnt 300
 tttggcacat cccagnacca gccagctgcc acaggccctg accttntanc aactgccc 360
 atgtattcca gacttctanc ataccacagt gccatgctga ttgcatctat agangctcag 420
 gtgcnctca aanctgtgcc tgctgcagna ngccccacgt ctctggcatg cccaatgcc 480
 atgngtgga acanttgact tctgggcatg ntggaattcc ctaccactga ncctgaccat 540
 agngggganc ccattttttt cgaggggggg gcccgcccc caattccncc ntatagnag 600
 ncgtanttac gcgcnnctta ctnggccngt ngtttaacaa cgtcnntgan ctggggaaaa 660
 cccctggngn cnacccaaatt taaacngcnt tgcannacat ccccttttcg 710

<210> 655
 <211> 202
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(202)
 <223> n = A,T,C or G


```
<210> 656
<211> 308
<212> DNA
<213> Homo sapien
```

<400>	656						
gctgntgaaa	gaccacaccg	aaaaactctn	ctttccgact	tccacatgat	gatngcgtg		60
tggtggtgag	agacttatca	tgacgacatc	gcttcnacc	atcgancn	ctgcccagc		120
ccattcatgg	aggcctgggn	antttctgtg	ntgacntnga	cncanacnc	tnccactgt		180
tgctatccag	acttgnttng	aatatnttat	tggcnaaana	canttnccga	atgctgtgnt		240
tgnnccatga	angatctgat	cactatgaga	gggtgaggac	nncctgctng	ctggcantnt		300
ntaacctn							308

```
<210> 657
<211> 696
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(696)  
<223> n = A,T,C or G
```

<400>	657								
accnttttcca	caatnctgnn	ctccccgcgg	tggcggccgc	gtcgaccagc	aacctcagct				60
gtgggtcttg	ttacagtaat	gagt tactgt	aaggaaagtg	tgacatttcg	agcaatttga				120
tttgtttaaa	aactagagca	gtttcagggt	tttccttgta	aatctgtctt	atgtgtcttc				180
aatgttcttt	cttgaggagt	agagaaaagg	attgttagga	atgatgcata	aaccatggct				240
tattttatct	cgctgccacc	cataatcaga	gcagattctt	gggactatga	ccctcatgga				300
gacatgacaa	ttgtgtgtgt	ggtgggtggg	agaaaaagagc	tgggaatttt	taggggtctag				360
agggtccaat	caggactatt	ttatggagct	ctgctcacca	actttaagtg	agcaccaggg				420
gtngnaaa	gaatcttggg	ntcaaaaanaa	caatggnaag	gggtaagttg	gtatnctgaa				480
ctggccactt	cggactctta	tttaaactggg	tattctcant	taaggaggcn	nggggtggtct				540
tggctgtgtna	aggaaaagcct	gtgcaatgga	atgactttaa	aaccccccat	taaaaaaaaaa				600
angntataaa	tcttgggtct	taanaangaa	gcctggyttc	tnttanccca	ttttncccc				660
qqqaaqqnaa	atnttcttag	qnaangqaaq	qqaagg						696

```
<210> 658
<211> 698
<212> DNA
<213> Homo sapien
```


<220>
 <221> misc_feature
 <222> (1)...(698)
 <223> n = A,T,C or G

<400> 658
 ctggactccc cgcggtggcg gccgctctag aactagtgga tccgtgttgg ctcaattctc 60
 aaggctgttg ctgtgcgggc tgttccccac acgtgctgct cagctcaggc aagcaccgag 120
 cttgtgttgt ttcattgctca gcgtggaggc cctcctcca ggtcgctgct ctgtgggggtt 180
 cccatacact caggctccta ggaggagtcc atttagaaag ccagggtttt tctcagagtc 240
 ttagttcctt gtgctgtcat ccatttcaca cgacttggggc cctgctcggg gcaacacagc 300
 aagagaaaag acagggaaaa taagagaggg accttgcaca cacacgctct ggaccacaga 360
 gccctgtgcc cagctcctct gtcaatacag gtggaatctc gtgcaggatc gcaggggtct 420
 gtgatgccac caaagagcag gccgggacag ggtaggaga gaaaggagag ggaagtgggg 480
 gtttctccta cgcactctta tttgcagagg gaaaggcggg tttgtattgg ggtgtcgggt 540
 ctttgacccc acngcacagt tgtgagacac cccatcctn agatcaaagc cccacatata 600
 gcttggggaa aaacaaaacn aaacaaaaca aaaacagtaa acctccatgc canttgttgg 660
 gnaagttttn aatttncttc ccnaccan cttgcttc 698

<210> 659
 <211> 750
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(750)
 <223> n = A,T,C or G

<400> 659
 ncaanctggn ctccaccgcg gtggcgggcg ctctagacta gtggatcctc ctcatgggcc 60
 tggatatctc tgaacatatg atgaacattg cttatgaaaa attatttgta ngaaaattgt 120
 gaggcctaag aatgntatct tcttttagtg atgggtctttg tttgcttctg taaggnaatt 180
 gtgggcactc gtaagcttgg atctctttaa tctaatacca gntttgagat tttcttggcc 240
 ccatagatga attaaaactg gcgtacttct tgtttacaag anggataagt ctctagggt 300
 aagtcttttg ggggtcccaag tcaaaaagat gagggattta ccagttctct aaccttggta 360
 gccccagact ccaaactttg ctttctagtc ccaagaggct atcaaaaagc aaaggccatc 420
 ttccaccttc ttttccanaa cagcacacat tccagacagt acttgaaagc aggaacctcc 480
 ttatccctta aaaacctctt ggaancatct tccctctctt gcttctacta tgcttggccc 540
 acctancatt cncntttttc tggaaaccgg aaaaancttn tgacttnngt tggctacatt 600
 cagcttggcc cctacaatn tggtttccat ctgccctaen gaaattttta agggcacttt 660
 tttnttggcc cctgactttc nntttttagg gctttccccc angctttgcc cctttgggta 720
 aaggggttat tttccttccc cttttggaag 750

<210> 660
 <211> 849
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(849)
 <223> n = A,T,C or G


```

<400> 660
tcggatccac tagtccagtg tgggtggaatt cgcggcccg cgcgacgggc agtagtggtta      60
tgcntntcta aatgttataa ttatttcaga attactctgc cagaaagtta tgatcataca      120
tagaagagtt tgtagctaac tttgaaagta gtggaaagtg gttttcatgt attgtttggg      180
ttaatttaat tttgattata tttggttttt agttcaggta atttttttgt tgaaaacttc      240
aaatgacaat ttcttcattg ttactaaaga tcactcatgt ggagtagttt cagatttttt      300
tctgaataca tgtattactt ttagagatgt aaagatgtga aattactaag agagaaaccc      360
atgtgatttg ttttagtgat caaaagtcgg tagctccttt gatcctaagt gccactgata      420
gttaaataga tactgaagct atgggcaggc tggattgata agaaaaagg agacagagaa      480
atgggaaatt gggaaagaac tgtgcaaata ggaaaaggag agagcaacag aacagaatta      540
gtaccacagt gccgaagtgc cacctcaggt acttccatct cccatctcct gaagaattca      600
gtaacagttt gcaaattggtc aacacaatca tttagtgatc ctggttgata ttttcaatac      660
tttctgggga tttcttggtc ggnttcaaaa gatgatgctg atagttttat tgccctgaa      720
ggtattctga agnttancat aatttattgg tcagtaaaat atttgaataa aagngganga      780
aggaaaatct ggcntcttat tttgggatnt cngcnggggg aangaggata taattnaccc      840
cggccttg

```

```

<210> 661
<211> 653
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(653)
<223> n = A,T,C or G

```

```

<400> 661
aacttaagct tgggtaccgag ctcgatcccc tagtccagtg tgggtggaatt cgcggcccg      60
tcgacctcca ttcgtttctt gtcctttttt ttcatttttt ctcatgttct attcacttta      120
ggttttctaag ataaatatta taaaataatt tttacttata aattattcac tgataccctg      180
tctttaacat gtgaaatgaa ttcaaaagga atcttaatga gaaataatat actcatgatg      240
tttaatagat ttgatttcga aataataagc cctctgaagt cctaagttaa aaataaagca      300
acttgtttga taatttttca tcaagaatgt atctgagtc ctgagtaatt attagtagga      360
atattccatt atcacaatta cacagtataa gctatttagt ctaactttac caaaaaaggg      420
agctacttca acactgtgtg agacttttaa tggggttgca ttgggtatgc actattagca      480
agataaccta ttttacagca gtgttntta acctttccca tttatttgaa aggcagctaa      540
gatatagtag ttaatntaan gggctgatgc atttatatta catgtagana atgggagata      600
cnaaagggag nggggggana tnttttgnat tcnaaagctt cnttgncaat taa      653

```

```

<210> 662
<211> 646
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

```

```

<400> 662
aaacttaagc ttggtaccgc agctcggatc cctagtcag tgtggtggaa ttcgcggccg      60
cgctgacca gggacaggca gccagnctg gggtcaccag ggtcccctct tgggccctcc      120
aanagcaaca gtactggcaa cagctgggat ttgctgagca cagactctgc agcaggctcg      180

```

TCGGATCCAC TAGTCCAGTG TGGGTGGAATT CGCGGCCCG


```
<210> 663
<211> 650
<212> DNA
<213> Homo sapien
```

<400>	663								
aacttaagct	tggtagccga	gctcggatcc	ctagtccagt	gtgggtggaat	tgcgggccgc				60
gtcgacgtcg	acgcggcgng	cggtttcgac	gcagttgata	catattatta	tatactacat				120
nggttttcta	gaattaaana	attaatgtgt	agtgccaggc	ctagatgtaa	gttacatata				180
tcaactctat	ccaattttgt	cagccataaa	acttaccttt	ttcacatact	tctaactcta				240
acaatgtgag	aatgtgat	cattgcaatt	ataccacaaa	ggcagatggc	tacatgcaga				300
atggatagca	gaatctagct	acttacgcta	gccacatggg	agacgttttt	tcctttgttt				360
ttgcaaaatt	gcaatataag	ttgcatatcg	ttagagttaa	aagatgtaaa	gaacctatag				420
aagccagtga	tgaaggacat	ttatatcttc	acctttacca	angaccttaa	aattgcctat				480
gtggagcaga	aactggaggga	gggcnannc	atcngtaaaa	aaacttttgn	tnctatttg				540
atttgggcac	cattattacc	tcccaggtn	ccttttgtnt	ttaacctttc	ttttaaaaaa				600
aataattcnt	aatttttggg	caaaaaaaaa	caagggtttt	atttaaattt					650

```
<210> 664
<211> 678
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G
```

<400>	664						
taaaaatcta	gactacacta	ggaaattatt	ttantatcag	aagaatatca	ggggtgtagt		60
actcatcana	gctaaatgag	agcgctttaa	aatgttagt	ttgtcttcgc	ccatttctac		120
agaaagctgc	aatttcagg	tttcaacct	atagggtgata	tttaagaaaa	aaaaaaaaagca		180
atcgcaaata	gccccactgc	ttttacaaat	cattttttct	cttctaggga	tagcctgtca		240
ggtggcctaa	tgtaattttt	gacatctcta	ggaattttta	tagaaccaga	aatgggtgcc		300
agagatatgc	ctgcactaat	cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa		360
agcaaaaact	ggcacgattg	aatcaanat	cttttaggca	agaaagtcac	gatgagtttt		420
anaattttt	taggactctg	tggcttttct	ttcatagaaa	tagaaaaaaa	aaattgtata		480
aaaaccacaa	aaggctctga	atagcccaaa	gcaaacactg	acaaaangaa	caaagcagga		540
agcaacacac	taccggaatt	caattatact	accaaggtgt	antaaccaa	acagcattct		600
attgggcata	aaatgaacca	aagaccagtg	ggaacaagaa	taaaqaancc	caaaataaat		660

cctatatatta cngccnc

678

<210> 665

<211> 694

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(694)

<223> n = A,T,C or G

<400> 665

cttttcaa	at	cattttt	nct	cttctag	gta	tancctg	tca	ggtggc	cctaa	tgtaat	tttt	60
gacatct	ccta	ngaatt	ttta	tagaacc	aga	aatggg	tgcc	agagata	tgc	ctgcact	aat	120
cttaagt	ggg	gatttat	gta	tttctca	agc	aagtga	ttaa	agcaaaa	acta	ggcacg	attg	180
aaatcaa	gat	cttttag	gca	anaaagt	cat	gatgag	tttt	agaatt	at	taggact	ctg	240
tggcttt	ctc	ttcatag	aaa	tagaaaa	aaa	aattgt	tata	aaccaca	aaa	ggtcct	gaat	300
agccaa	agca	acactga	nca	aaaaga	acan	agcagg	gaag	caacaca	acta	ccnga	attca	360
aattata	acta	ccagggt	gta	gtaacca	aaa	cagcatt	cta	ttggcata	aaa	atagaca	acca	420
agacca	atgg	ancaga	ataa	agaacccc	ac	aaataa	atcc	atata	atntac	cgccan	ctga	480
ttatcaa	ataa	cnaacac	caa	gaacata	tnt	taaggga	cnt	nctatt	caat	aantag	tgct	540
ggnaaaa	aact	gggaaat	cca	tatgcaga	aaa	naatga	aaact	agacccc	ctat	ccctcac	cat	600
acgcaaa	annt	caacttc	gga	atgggatt	ac	aaaact	ttaag	acattcca	ac	ccaagaa	aact	660
atnaaa	ancta	ctatta	agaa	aacagat	cnc	nccc						694

<210> 666

<211> 705

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(705)

<223> n = A,T,C or G

<400> 666

tttaaaa	aatt	tagata	caact	angaaa	atta	ttttagt	tatc	agaaga	aatat	cagggg	gtgt	60
agtact	catc	agagcta	aat	gagagc	gctt	taaaaa	tgtt	agtttg	tctt	ccgcc	atttc	120
tacagaa	agc	tgcaatt	tca	ggtttt	caac	ctaata	ggtg	atattta	aga	aaaaaaaa		180
gcaatcg	caa	atagcccc	ac	tgctttt	taca	aatcatt	tttt	tctctt	ctag	gtatag	cctg	240
tcagg	tgcc	taatgta	att	tttgac	atct	ctagga	attt	taataga	aacc	agaaat	gggt	300
gccagag	ata	tgctgc	act	aatctta	agt	ggggatt	tat	gtatttt	ctca	agcaag	tgat	360
taaagca	aaa	ctaggc	acga	ttgaa	atcaa	gatcttt	tag	gcaagaa	agt	catgat	gagt	420
tttana	atta	ttttagg	act	ctgtgg	cttt	ctcttc	atag	aaataga	aaa	aaaaatt	tgta	480
taaaacc	aca	aaaggt	cctg	aatagc	caa	gcaacac	tga	acaaaa	agaa	caaagc	agga	540
agcaaca	cac	taccaga	att	caaatt	tatac	tacca	aggtg	tagta	accaa	aacagc	attc	600
tattggg	cnt	aaaatag	acc	naagac	caat	ggaac	agaat	aaaga	accca	aaataa	atcc	660
atatttt	tac	agccag	ctna	ttatcaa	ataa	aaacnc	caag	aacnt				705

<210> 667

<211> 817

<212> DNA

<213> Homo sapien

$\langle 220 \rangle$

$\langle 220 \rangle$


```
<220>
<221> misc_feature
<222> (1)...(439)
<223> n = A,T,C or G
```



```

<400> 675
nnactagtc agtggtggg aattccattg tgttgggctt gtatggggtt ttttgtctag      60
ttntttggga aatgttngtg ttactatntt ttggatatna tatatgatat gtatggccct      120
tctatgggct cctcanacng aactcaacca ttttccacaa aaccnattcc tcctttccct      180
tcatgactga gtgggtgttg tactatccng gaaactggga cattgtcctt cacatctntc      240
ccttanctgc ctngtcnat tgatgtcttt gagctntgan atgtctttgt taactntctc      300
ctnctctgt actgccggca naattaagca ccatntgtca caaaaagtat tgcgttacct      360
tcacgnatct gttngttnc atncttgctg cttctccngn ggaaaatagg ctnttctggc      420
aaccgaacng aanaaatac                                     439

```

```

<210> 676
<211> 587
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(587)
<223> n = A,T,C or G

```

```

<400> 676
nggnggcctn attaagcgcg cgtaatacna ctcactntgg ggcgaaattgg gtaccgggnc      60
cccctcaagt tnatntgccn aacctctctt ttggaataac aaaagggtta acacatatgt      120
cctcataggg acgcgctttc acacnttcct gacngcttca tanacntcat tncatattct      180
cctcagnaca agttnaggcn gaaggtgagg canacnttat aatttccatt tcacaaatnc      240
ggaaagtgag gctcaaaggg nttaaaaaat aacctgatac aantcataga gccggtntct      300
ggaanaagca ggagcaaagt ccaggcatcc tgatccaagc tnggtccact gccttcact      360
ctggagaggc ttcactctcg acaaaggaag ggacntgagt ggctgganaa tctcatggga      420
taaagacctc agnatattcat gtccttgga atcccatggg ttgaacaaca ggtntttggc      480
cogtggttct ntccctttgn ccacttttta accttgggtt aaatgatggc ntctntnagc      540
nttttttttn aaagagatng aaattgaatg attatnngct cattggg      587

```

```

<210> 677
<211> 444
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(444)
<223> n = A,T,C or G

```

```

<400> 677
gtggggcatn attaagcgcg cgtaatacga ctcactatag gggcgaantg ggtaccgggc      60
ccccctcgaa gcggccgccc tttttttttt tttttactgt ccaaactntc tatngatnta      120
gttgaactgt ncaacgattt catgaaattc tatacacana gccttcaggt ccagagagta      180
aaacaaatth aaatttnttc accanattgn agcagncana agcatccnat natatccgac      240
tacaatgaat natatgctna nggtanctna tttaccact ntggggtctt tanggtctgt      300
cacaaactat tttcgtaaac atcnntttta anttnggtga atggacctaa tnccagataa      360
ntctatttna tntaccctag catnctgtg gctnactttn cgggctgtgt tggcntactt      420
ttaggagaaa attggtataa atnn                                     444

```

```

<210> 678

```


<211> 670
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(670)
 <223> n = A,T,C or G

<400> 678
 actagtccag tgtggtggaa ttccattgtg ttgggagcag tttaaaaaaa aaaaagacna 60
 aatatacnac tcttgatnaa acataaagggt acagtgtgtct atgaggaana gaaaagggtac 120
 ctnaggatgc aaaantacct accacatggg aaccgttngt ccacactcat tccnnanaaa 180
 accgagtcct ctcanttnca cacgtgtacg tttcagttgg gaagtgcctg ccattactcc 240
 naagcctaga accttcacgt cctgaagggt ctggaagggt tttcagattg cttaaaganac 300
 gcngcccttc catattcntc tccactaccc nggggaacgg aacaaatgga gctgcgacng 360
 ggaagcgtcc cttcccntcc gaacgcttcc tttcaaacct gcctgccttc cnggcgaatg 420
 gaccggaagg ttttctngct tcctttcanc ccnaattact tcctgngttg aaaattggcc 480
 tgttggtttg caaatgcngg aatttgttta ctttctcat gtccgtgtgt gnncnaaccg 540
 gctccttgtg tgccctccct tngaaagggt ttcacagcgc cccgcccttt ctcttntaan 600
 ngtcctaate cggncnggac cactcgggga aaatttttct ttttcgaaaa gccgccccnt 660
 ccgtccggt 670

<210> 679
 <211> 449
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(449)
 <223> n = A,T,C or G

<400> 679
 actagtccag tgtggtggaa ttccattgtg ttgggagtag gtctactaca ncctacttcc 60
 cctatcatan aagancctan caacnttcat gatccccccc tcntanncct tttcctcanc 120
 tgctcctag tcctgtttgt cctnttccta acantcntaa ganagatnac taatnctact 180
 atctctnacc tccggaanct acaanacgct tggaaactatt cngaccccat gcancncat 240
 nctccatcgt cctcccagcc cctncccttc ctttacntta ctnaacgaag gtcgacgac 300
 cctcccntac ctcccnncct attgggncct aanggnactg gacctcacga ntacaccnac 360
 tacggggnga ctaagnctgn aactccttac atatntcccc gttacccccn gaacncagcg 420
 aacngcnaca ccttggaant caagaanta 449

<210> 680
 <211> 670
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(670)
 <223> n = A,T,C or G

<400> 680

10525070360

tttcngtgtg	gtggaattcg	cggccgcgtc	gacgagaaga	nggaggagga	naaggagaag	60
gagaagaagg	agaanaagga	ggagaaggag	aagaaggaga	agaaatcatc	atcatcatca	120
tccactgtct	ngcaactatt	taagtttgcn	antcccttga	aaacaggtag	ttttgtttca	180
atgtttggga	ccactnctga	cnatgannag	aanaccaata	aatgcttgat	naatgaaaaa	240
nccacttttt	acctgttaga	accctgaggc	taagagaant	gatgtgactc	gacttagtta	300
ccacaaacta	tgatcctagc	atnaattggg	gcactctaac	acctcaactc	cctgtgcaag	360
aacagatttt	caatgtctac	tgatgatttt	aaatggatta	nttcctctct	ttacttctta	420
agggcatgaa	gntttatgaa	acaaaactat	ncagttccag	acgcttaacc	cacatagtgt	480
taatagtcac	cttcaacaca	cnactaaacc	ccccaaaaan	gnttttttac	gngtttcgac	540
agttttcttt	tctttttgac	ttgnttaaca	cccnnngaaa	ctttgtntctn	tttcntgaa	600
tcacancctt	cnaanancca	atggtnccgt	tttttctent	tcngggccct	tccttnttn	660
aaaaccanat						670

<210> 681

<211> 494

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(494)

<223> n = A,T,C or G

<400> 681

tcatggtgtc	cacagtctga	tgtgagcgca	ttaaatttaa	ggatctccgc	ccttctcctt	60
aaaactcagg	acttggcaat	gancctagga	agcgcccctc	ccctccccc	ccanattcaa	120
gccccggacc	gctgcgctc	cagctgcgcc	tagtgaaacc	gccgaattcg	aattcacact	180
cggngggccg	gcgaaggtgt	gcgcgcccgc	gggagcgccg	gggcnagccc	gagggactgc	240
aagccaanaa	nggaggcatg	ggtggcgggg	ggcgccgtct	gatccaggaa	ggagcggagg	300
cgccgatcac	acactcttna	gacgccctgc	ccgcgccttg	ccagcgcgca	gntgcaggaa	360
cgcgcggagc	aggaactcgc	tggagtttgc	caagccccc	gnetctggaa	agtntgtagc	420
tccctttcgg	ancgnetctt	ctggcccttt	gggacgggtg	tgtcattggg	cgggggtctg	480
tataaggggg	ggac					494

<210> 682

<211> 263

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(263)

<223> n = A,T,C or G

<400> 682

tgatcattca	agcgntgngc	gnataacgat	tgctnagccc	aacctttcat	agggtcgttc	60
ctttgggaat	nggatgtcta	ttgaatggca	gggatagggg	cactcggcat	tcgcctctgg	120
tacagttttg	catatatatc	ctcatcgcca	gcgagcgtag	gggancgtta	agtttgggga	180
aatgccnccg	catgnccctn	ccggagctta	aacccccaac	aatnccatt	ttnaaaaaag	240
ntttnttant	taaaaaaaaa	aac				263

<210> 683

<211> 255

<212> DNA

CCDS:100000.1

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(255)

<223> n = A,T,C or G

<400> 683

cttgcccggc	atgcacagac	ntntttacgg	acacnctact	ccaagngagc	ctgnanctgt	60
ctacgggtcaa	nctctaaggt	tngncantgc	cacanatggc	atagtcccga	gggcggtnan	120
tctggantgc	tctctgcact	tgaacntaaa	gcgcntttca	aganaggnt	aatngcctgc	180
ctcttgacaa	cnaacaancc	cacaccnacc	tangaccctn	tangcaagga	ctggattctg	240
naaatgcaat	acaca					255

<210> 684

<211> 922

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(922)

<223> n = A,T,C or G

<400> 684

acccttcatt	tcatgtgctt	ctattttctt	acatctttta	catgactaag	ggattaatga	60
aatcacctct	tcataatcat	gaccataatt	tcatccaaca	agtactcaag	tttgggtgta	120
gcacttttatt	aatgcttaag	aattctctct	ctctccctct	ttctcttttc	cttagtcctt	180
gcacaataag	gatttttgaa	tgtataatat	catcttaggt	aagctttcat	atgggttttg	240
catatgaagc	ttatgactgt	cataagccat	accaagcctg	tggagtatgg	catgattttc	300
attacataat	ccaatgaaaa	tagacttatt	ttaaatccct	aactttgtag	ttttaatttg	360
tattttacta	tcttgaaatt	aacagctagt	acttatccat	cacagcagtc	tcctactgac	420
atgaagcaag	ttgttgaatg	cagtaganca	tgaatgaaag	cattttaatgt	tanacaaaaa	480
tgggtgatac	ccaagcattc	tgaattattt	gcatcaagga	atgggacatg	tacattagtg	540
gcatcatttc	taccaatatg	tgacttgaat	tgttttttta	aaaaaaggan	aatgantttc	600
tcaatttgct	ttaaaaaatt	ttnaaaaagt	tcaatggcat	gctgctttgt	ctggacttaa	660
tttattaaca	attnttaanc	cttccttaag	gacanaaatt	tgggtgttcag	gatcnccttg	720
aagggtctta	tttttnatan	nattccaaac	ccaaaagggtg	gtttaaaatg	gnggggttcc	780
ccccncnaaa	atttggaaccg	gcttttttat	atttaaaaaa	nttnccnttt	gngtttgaaa	840
nctnaatacc	aattaagggg	gaattttacc	tnccagtggg	aaaaaaaaaac	nctngccttt	900
naaaaaattc	ccnggagnca	at				922

<210> 685

<211> 531

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(531)

<223> n = A,T,C or G

<400> 685

tgaggctctg	taaaactggt	cctctgctag	gcatacttca	tattctctat	attaaactca	60
------------	------------	------------	------------	------------	------------	----


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tctttaattg gcatggaaga ttcattgttc caaatctcag atgaagatcc tatattggat 120
gcaattaagc ctggcagcgc cctcaaaaga cagtcttgct actgctagcc acagccagga 180
cacagtaaca gttccttcta gtgacccnag accataanaa atananatct aaagaattct 240
gactccaaag gcattagccc attcctggta ttgccaatta tgatagaaaa aattgccaag 300
ctcctgggac atggaaatac actcagtaca tttgagaact ggagaactan tttccaaat 360
agtatgaaga catganggtg attgtagata tntgagtttg gagaanttga gggaaatcng 420
attacacatg tttactacaa gagatgttna taagtaaaga aggctgata tacaatctaa 480
cagacnantg agataaatct taantcacia ctgacntccc ttttggggcg g 531

```

<210> 686

<211> 336

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(336)

<223> n = A,T,C or G

<400> 686

```

ggngncctna tgagcgcgcg taatacgatc atatagggcg aattgggtac cgggcccccc 60
tcaagaacac tacaagctat gtcctcttct canagagccc tgaantttta acatattgaa 120
agctctnadc ttgccaanaa actccactta acttcaaaac acaccctcca cacacatcat 180
gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc 240
anagaagcag ttctcaaant gcagctnaaa aagaaactga aaacccaatt catgcaanac 300
ctagggctta tttgagagca ttttccagtg cagatt 336

```

<210> 687

<211> 271

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(271)

<223> n = A,T,C or G

<400> 687

```

aatctgcact ggaaaaatgct ctaaaataag ccctaggtct tgcatgaatt gggttttcag 60
tttcttttta agctgcactt tgagaactgc ttctctggac ccctgttcct gaagtatgcc 120
athtagatt ctggttcagt aagatctcag ttaatcatga tgtgtgtgga ggggtgtgtt 180
tgaagttnag tggagttctt tggcaagatc agagctttca atatgttnaa acttcagggc 240
tctctgagaa gaggacatag cttgtagtgt t 271

```

<210> 688

<211> 740

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(740)

<223> n = A,T,C or G

136290:136290

tgatgaagcg	cgcgtnttac	nactcactat	nggggcgaan	tatgggtacc	gggnccccct	60
cgaaagcgcc	gccctttttt	tntttttttg	tgagagttta	aataaaatat	ttgagtttaa	120
tttaaagttt	gagtttaatt	aaaatatatg	gcataatcca	agttgggctt	tgcanaaaaga	180
acacttctca	ggaactgtta	gttgggtgtac	caggaactca	gaaggggtcct	gttattaaat	240
atatttgga	aatgcatgga	ttctctgaan	atcnctctgc	atgtgagcaa	cacttacatc	300
ncaaaccaaa	attggcattg	catacatnaa	ccaatatttc	ccaaacattt	ctggttatgg	360
cccacccccct	ttgtgtanta	cttatttgctg	ttttttggaa	ccctggggaa	attacttaaa	420
atattcagct	ggaaattaca	ggcgttactt	ttaaggganc	aagaattaca	gtgactccca	480
aaattgcaag	tgttgattac	tattttaagaa	cccaagaatt	tgaaagaaat	tttgaaaagt	540
gaaaacngga	aatnttaaat	gacttctcaa	attttgaaaa	ctcnggnaaa	catctccact	600
ttggttcccc	tcctttaaaa	attgggctaaa	aattntttnt	tatnccacc	ccattggaan	660
tncccccccc	tcggaacaat	tggattcccc	tatttcttaa	aaaacggccn	ccccccccgg	720
qnggaacncc	nacnttttgn					740

<213> Homo sapien

<223> n = A, T, C or G

actagtcag	tgtggtgaa	ttccattgtg	ttgggattac	atatactttt	agcaattttt	60
aaagaagtgt	acaaagttga	gatgtttcct	gagctctcat	atatctgana	atgtcatttt	120
acatctccgt	cttcacctct	caaaacttct	ttcaattctt	tggctcttaa	tagtaatcaa	180
cacttgcact	ctggagtcac	tgtaatctct	gtctctttac	agctacncct	gttatttcca	240
gctgaatatt	tttagttatt	tcccagggtt	ccaaaaaca	gcaataagta	ctacacaaag	300
ggggtgggcc	ataaccagaa	atgtttggga	aatactggct	catgtatgca	atgccaaatc	360
tggtttgcna	ttgtantgtt	gtcacatgc	agagtgaatc	ttcaaanaat	ccatgcattt	420
tccaaatata	tttaataaca	gggaaccttc	tganttcctg	gntacaccaa	ctaacagttc	480
ctgaaaaatg	ttctttctgc	aaaacccaac	ttggggatat	gccatatatt	ttaattaaac	540
tcaaacctta	aattaaactn	caattatttt	atttttaact	cctcaaaaaa	aaaaaaaaaa	600
aqgggggggcc	cttccaanqg	qqggqccqgt	tcccc			635

<213> Homo sapien

acagaagaaa	tagcaagtgc	cgagaagctg	gcatacagaaa	aacagagggg	agatttgtgt	60
ggctgcagcc	gagggagacc	aggaagatct	gcattggtggg	aaggacctga	tgatacagag	120
gaattacaac	acataactt	agtgtttcaa	tgaacaccaa	gataaataag	tgaagagcta	180
gtccgctgtg	agtctcctca	gtgacacagg	gctggatcac	catcgacggc	actttctgag	240
tactcagtgc	agcaaagaaa	gactacagac	atctcaatgg	caggggtgag	aaataagaaa	300
ggctgctgac	ttaccatct	gaggccacac	atctgctgaa	atggagataa	ttaacatcac	360
tagaaacagc	aagatgacaa	tataatgtct	aagtagtgac	atgtttttgc	acatttccag	420
cccttttaaa	tatccacaca	cacaggaagc	acaaaaggaa	gcacagagat	ccctgggaga	480
aagtcgccgc	cgccatcttg	ggtcatacgt	gagcctcgcc	ctgtgcctgg	tcccgcttgt	540
gaqggaagga	cattagaaaa	tgaatttatg	gtttccttaa	aggaatgggc	ggaaaacaga	600

atggcacacg tatacctgtg taacaaacct acacattctg cacatgtatc ccagaacgta 3900
aagtaaaatt taaaaaaaag tga 3923

<210> 691
<211> 882
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(882)
<223> n = A,T,C or G

<400> 691
ttactcacta tagggctcga gcggccgctg aattctgctg cagtgcgctg tgattatgtc 60
cctgcactcc agcctggatg acagaacacg atcattttctc taaagacaaa caaaaaacat 120
aaaataaaac tagtataagg atagaagccc agggttgatt taagtctgcg gaaatcataa 180
accatagggtc agactttctca ttgatgaggt acttgtgggt tagaatacaa ttaggtatat 240
ttggtctaga aaccaggatg gaattagaga ataaaagact gagcaatagc atgttatagt 300
attagaaata ctatagaaat aggaaaagcc ctgattatga ctttggagtt ctgatccaac 360
atctgggatt atttagatat tttaaaggaa aacgatgact tttagctctc aggatgtag 420
tttcctcaac cataaaatga agagcctcga aaagatttcg tttaccagat tatttctgaa 480
gtcaattcca gttctaaaaat tccatcactg ngcactaagg caaattgaat tgaataaagt 540
attgggnatg cataaaatac tctattttta aaaangaata gtaattatcc attggnaaca 600
gacgcantca tccagncatc tctaccctg ncccatgnen tatgtagana tgtanctcta 660
atcccttaac aaaccgattt tgcaaaggag cttanccttg gggacttgg tcanggcaac 720
tggctcactt tnaagactca tcttcactta ctgggcacca aatnccctacc attgcatcaa 780
actgggggttc ccatncaagg caaacctgn gaaatcttta atcccgaat tggcgcccaa 840
ttttgnngggg tttcnaaaaa gaatcntccc ccccgagggg cc 882

<210> 692
<211> 235
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(235)
<223> n = A,T,C or G

<400> 692
ccgcactngt aangnccgcc agngngctgn aantccgctn agcncggatc cactagtcca 60
ttgatggtaa aagggtagct tactggnatg tccgnctgct ccanganata atacncagga 120
cttctcanag cacttaatat gttaatataa aactncngna aaaaagatnt tcnatgaanc 180
nttcctctta ggaggtcagg ngagaatagt gttaatgnca ttaagganag aacga 235

<210> 693
<211> 383
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(383)

<223> n = A,T,C or G

<400> 693

```

nttatgtaag aaatgtcata tatcttttat tttctttaaa tcaaaataaa tatgactttg      60
agcatcccat cccatgcccc atcctatcag aatggtagga acatcaacac aaataattag      120
taatgcaccg catctacatt cccatgctct ctttacttct tcagcattgc ctaaaggcat      180
aatacacctt taattaatta attcagcctc ctaatgcaca ttaacaaagc ccctgctaga      240
ctctgtccat aatggnaaac ctgnatgatc cttgatatta acantttaag gaatgctcat      300
ggattggttt cagacttaaa aaattgaggg ggctgaanaa aatctaangg anaaatcatg      360
gaagcatttg cacatattac ata                                     383

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<210> 694

<211> 204

<212> DNA

<213> Homo sapien

<400> 694

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tctcttggct ggtcagcctg aaggggtgga atgactcacc aacgctacta atccttcttc      60
actgtccctt atttttttcc ctcccaggct cataactcga gggttaaactc tcttttatac      120
aagaaccctg tctgatgaag catcatttca gaattttaag tcaacttaca aatgtgggtat      180
tattcacatc tgagtacaaa tttta                                     204

```

<210> 695

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 695

```

gcaccagccc aggtgctggt tcttcacttg agctccatga ccctccctgt gtggtggggt      60
gaacggtgac ctccaaaaga tatgtccacc tggaacctca gaataagatc ttatttggaa      120
tagtctttgt agatgtcagt aaggtaaaga tttggagatg agaccctcct ggattaggggt      180
aggccctagg tccactggca ggtgtgcttc tcagggtctg aaaggggaag acagggccac      240
ccagaggagg agacggaggc agagacaggg ccacccagag gaggagacgg aggcagagac      300
agggccaccc agaggaggag acggaggcag agacaggggc caccanagg aggagacgga      360
ggcagagaca gggccaccca gaggaggaga cggaggcaga gacagggcca ccaaaggag      420
gagacggagg cagaanacag gcccccccaa agaaganacc ggaggcanaa aacagggccca      480
ccanaggag gagacggagg canaaacagg gccaccccaa aggaggagac ggaggcaaaa      540
cagggccacc caaaaggagg aagccggaag gaaaaaacag ggcccccca aaggagggaag      600
ncggagggcn aaaaanaggg ccccccccaa agngagaaaa ccnggnaggc nanaaaaccn      660
ggggcccnnc                                     670

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<210> 696

<211> 317

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(317)

TTGGGGCCCN

<223> n = A,T,C or G

<400> 696

tgacccgctt	tttctgcaaa	ggagagtggg	gaaggagggg	tgggaagaca	aaagttacat	60
gtagcaggg	aagagaacag	aattttatcc	acccttatct	ctttagttag	tgaacaaaca	120
gccactgtc	atcgtaggata	catttcactt	ttttcacatg	actaaggagc	tctccggagt	180
gaagagttag	taaataatgtt	tattacgcat	tcatttgcta	agaatcatca	agaacccaaa	240
gtagagacg	tttcgtgggt	gaactttctc	cctactgtct	agtagaatta	tatggggatt	300
ctggatctgc	tggtgcc					317

<210> 697

<211> 246

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(246)

<223> n = A,T,C or G

<400> 697

ctncagctct	aatcgactnc	tatnaggnat	gatggcncgt	gcngcgcgta	cgtantgctt	60
ggatcctcnn	anageggacg	cctactacta	ctaaattcgc	ggncgcggtg	actttttttg	120
tttttttctt	tnacagagnt	ntttttgtgc	ccttggttct	tatgctcana	ctcngcaaaa	180
aanatcaaaa	gntacnntag	aaaaacntat	nccatctnca	naaaggaggt	gnagntatta	240
ctttct						246

<210> 698

<211> 3674

<212> DNA

<213> Homo sapien

<400> 698

agaaagtttc	cttttttttt	tttaatgggt	aaaagatata	cacatattta	gaattagcca	60
gctgggctca	gttttagatta	ttccaatttt	gttggcaaca	tccagagcat	cgtaatcagg	120
agccagttaa	acatatctct	tcttctctcc	atcaggccaa	atcacgggtg	tgacctgggc	180
cacatcaatg	tcttagaact	tcttcacagc	ctgtttgatc	tgggtgcttg	tggtcttaac	240
atccacaatg	aacacaagtg	tggtgtgtgc	ttctatcttc	ttcgtgggtg	ctcagtggtc	300
agcggaact	tgatgatagc	gtagtgtgca	agcttgatc	tcctgggagc	gctcttccaa	360
agatatttgg	gctgcctcgg	gagttgcagc	gtcttggggc	gccggaaggt	gggtgacgta	420
cggatcttct	ttttttgtgt	ggctgtggac	acctttcaac	actgtcttct	tggcctttaa	480
atccttcgct	ttggtttcgg	ctataggagg	ggcaggagct	tccttcttca	ctttcggcgc	540
catcttgtga	aaagggaaaag	tttcctttct	aataccattt	tcacttctcc	cgaattttgt	600
ggatcggttc	ttggtatcta	ccccagattt	caggagtgtt	ggctggatct	tagggattgt	660
gaagtcttca	tttcctctgt	gtgagatctg	aggcatgatt	ttaaacagtg	tgagggaaag	720
agatctccag	gcactttaat	agaatggaga	agcaggatgg	gatttgagag	gaaatctgat	780
ttgaaaaaaa	ggagaactag	agttgagttc	gtaattaact	agcaccttaa	aggtcattca	840
gcatgcccat	ctgcacagtg	ggtgtaatca	ccctacagaa	caaaaacaaa	aaggcaatgg	900
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ttcacagact	tgaattcatc	tcccaagttc	tcttcctgta	ctggaaactc	tgcttaggt	1020
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ctacacaaag	atgcacatcc	ttgtttgtgt	gtgtgtgtcc	atttgctgtg	acattcttgt	1140
gaaagtcaaa	gtttccagc	tggtgacata	cacaagtttg	tttggtgcaa	cctgtcagat	1200
gcatccctta	gacaggccct	ttgatactct	gggaaagaca	ttggacttac	agtcggaacg	1260


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aaaagaaaga aatgtgatat gtatagcgtg cagtgaagtg gagttttacc tgtattgttt 1320
taatttcaac aagcctgagg actagccaca aatgtaccca gtttacaaat gaggaacag 1380
gtgcaaaaag gttgtttacct gtcaaaggctc gtatgtggca gagccaagat ttgagcccag 1440
ttatgtctga tgaacttagc ctatgctctt taaacttctg aatgctgacc attgaggata 1500
tctaaactta gatcaattgc attttccctc caagactatt tacttatcaa tacaataata 1560
ccacctttac caatctattg ttttgatacg agactcaaat atgccagata tatgtaaaag 1620
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<211> 6976
<212> DNA
<213> Homo sapiens
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<213> Homo sapiens

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Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
          35                      40                      45
Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu Thr Gly
          50                      55                      60
Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu
          65                      70                      75                      80
Tyr His Arg Glu Lys Gln Val Leu Ile Gly Gln Trp Val Glu Ser Gly
          85                      90                      95
Trp Glu Gly Trp Ser Gly Phe Leu Gly Gly Gln Leu Ala Gln Asn Leu
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Val Ser Gly Lys Gln Leu Trp Arg Met Leu Leu
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<400> 707
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Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val
      35      40      45

Glu Glu Lys Phe Met Thr Met Val Leu Gly Glu Ser Leu His Pro Pro
      50      55      60

Ser Phe Leu Phe Gln Ile His Ala Thr Trp His Val Gly Gln Glu Tyr
      65      70      75      80

Leu Cys Pro Gly Ser Cys Leu Glu Gly Glu Val Val Cys Trp Glu Gly
      85      90      95

Ile Ala Gly Gln Glu Gly Asp Pro Gly Leu Arg Gly His Thr Lys Arg
      100      105      110

Lys Lys Arg Ile Pro Arg Thr Tyr Pro Ser His Leu Trp Ile Pro Gly
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Pro Ala Gln Ser Leu Ala His Arg Arg His Trp Arg Asn Ala Pro Asn
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Leu Trp Leu Ala Leu Leu
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<400> 708

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Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp

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Cys	Phe	Thr 115	Pro	Leu	Glu	Ala	Leu 120	Leu	Ser	Asp	Leu	Phe	Arg	Asp	Pro
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Ala Pro Val
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<213> Homo sapiens

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ttcnacaata ctgctatcct anttnttctn tcncctctct cccannttac taaccac 177

<210> 712
 <211> 185
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(185)
 <223> n=A,T,C or G

<400> 712
 aaacgnacca nngccaacga tangtggttg ngttggttgc ggttggttcct cttatntgca 60
 ctggttggtcc gtgtcgcacg ganggccacg tccctctgnc ntgagtanca catagcatcc 120
 acgtttagtc gactntnccg ggcgggcgcgt ctaccntnt atngattctt attaaaantc 180
 ggatc 185

<210> 713
 <211> 172
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(172)
 <223> n=A,T,C or G

<400> 713
 nntggctgcc tngcgtnta ctctaaagga tntactatnc atatggantc naanacgact 60
 cactacacgg cncctnccg agccnnggtc agtgcctnct nggagacctt ctctggggca 120
 ggangagcac tnggtatgtt cacgtatcnc ttcntaaana tacnccctc cg 172

<210> 714
 <211> 112
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(714)
 <223> n=A,T,C or G

<400> 714
 nttgcgtgcc tggacgtnta ctctgcanga tctactactc atgngaattc taantacgga 60
 ctactatnc ggcancgcag gcgcagcagg gaanggggtca cctcccagtc tc 112

<210> 715
 <211> 326
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(326)

00005014:050001

ggcagganga tcncttgagc ccnagaggtc gaggctacag tgagccanga gtgcactact 60
gtnnccgccct ccgcattcac gngtggtccg atccccgggt accganctng anttcactgg 120


```

anttccttttt aancgtnttg antggtacna cctcgcantc cctggctg 168

<210> 719
<211> 210
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(210)
<223> n=A,T,C or G

<400> 719
cancgtcgnc ataacacgta tttnttgatn aagattctna ctgacccatn aantctacnt 60
ctcaagctct tncanngtcc agtnaangga atgtgtatnn gtnggggatnc cacanaaaaa 120
aganatntcg gncgcttcat tantcatcct tcttaccan ntctctngat nncagtntg 180
ancntgaacg cacactacng gatntctcca 210

<210> 720
<211> 131
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(131)
<223> n=A,T,C or G

<400> 720
tccatcctaa tacgactcac tatagggctg ccaacctgcc atccactact gaggaagacc 60
cgnanactta ggggctcact gcgagccacc ggccacaggt cgtatagggc aaagcacgng 120
gaagcaccce t 131

<210> 721
<211> 121
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(121)
<223> n=A,T,C or G

<400> 721
tccatcctaa tacgactcac tatagggccg ntgantnctg gcgaaaggct tacaattaag 60
naggaaaaan ganccaacaa ctaaaaaaaaa nncggncgtg ncagcttnga tgactngtcc 120
a 121

<210> 722
<211> 246
<212> DNA
<213> Homo sapiens

<220>

```



```

gagcccgcgg ncagacgccc catcagtagc gtccgcaccg ggnagccgcg gntctcgccc 180
gagccgtggg cgcgcccag gggcgggctc gcctcccgcc gtccctcgca gctctgccgg 240
gcccagagccc gcgcgctcgc cgcgcgcgnc ttgccgctcg gnccgcgcgg nccggnaaac 300
gcggtcgagg tctggatgng gcanngccc cncctntcgc tgagcct 347

```

```

<210> 726
<211> 162
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(162)
<223> n=A,T,C or G

```

```

<400> 726
ttgggtgggt tgggtggggg naaatttncc catttgggtg gggttggggg ggnaaatact 60
tcccgcttt tnggtnccca aaganacnaa gggggagtcc cttnatagag gnagnngcgat 120
ncntcncaac nacntngact ttgnccatgg ggagnaaggt gg 162

```

```

<210> 727
<211> 120
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(120)
<223> n=A,T,C or G

```

```

<400> 727
gtgtgggtgg ggaattccat tgtggttggg ggnaaatctc cgcttggtcca aagnacaggg 60
ggggtcnctt anagnngagg gggttcctcc ccaccacttg ncttgnccat tngagnaag 120

```

```

<210> 728
<211> 130
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(130)
<223> n=A,T,C or G

```

```

<400> 728
gacccactgc agcgttnaac ttagcttgga ccgagctcgg atccctagtc cgtgtgggtg 60
aattccatgt gtcgagagag gggcaaatac nctccaanac ancncctca tgctcnacac 120
atattcgcat 130

```

```

<210> 729
<211> 182
<212> DNA
<213> Homo sapiens

```

106250-106300


```
<220>  
<221> misc_feature  
<222> (1)...(182)  
<223> n=A,T,C or G
```


<220>
 <221> misc_feature
 <222> (1)...(660)
 <223> n=A,T,C or G

<400> 732
 gcttgggtacc gagctnggat ccctagtaac ggccgccagt gtgctggaat tcggccttct 60
 tcaatcagnt nacgagctgc atggtctgct aacattgtca taattgctgg catagattac 120
 tgaaaataaa gaaaaaaaat tgaagctgcc tatcaagttt tggattatc aaaaacttcc 180
 tacaagttat ttactttcaa ccatgttatt acaaatattt taatgaatac tttagagact 240
 ttaattacaa aaaactgaga tagtaaaagc aagtaataaa agctgaaatt acttagctat 300
 ttgataatta cataaattat tatggtccat tcaacttttc tagtgtttag tttatacacc 360
 aggaagactt tcctattcta ctaacattta taaagtatgc taacctatta tttaaacgca 420
 tccactatta ggattttatg gcctaaaacg tgatacagtt cagtatcttg atgtcaaac 480
 tttttaagca agtagggatt aagttcaagt gaatgtgatt ttctttcttc ccagtagggg 540
 ctctgaata actcagnaaa gctcacttcc attatcttac tttataaaaa aatgctataa 600
 gacagaatgg gccgacgtgg nggctccacc tgtatccacc tttggaggcg agnggcgaat 660

<210> 733
 <211> 836
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(836)
 <223> n=A,T,C or G

<400> 733
 aattaatgac tttttttccg ccttgccaag ctagtttgtc taaatataat gtaaagaaat 60
 tagctactca ttttctggtc cacgaagggt cctaaaatgg gaagaagtgg agatctgacc 120
 ttgttagttc taaatacact aaactgggag tgccatggat ggctttcagg atgtcctgaa 180
 tcctctataa ttgtatacaa aatcgtgagt ttttaaaaac tgggttagag ctattgggtc 240
 ctcagagtct caggcatctt agacccccaa aaagggttaag gactactgac ttaaccaatt 300
 aggtttgagt ggcattggct ttgaagaaaa gcagaggaaa gatataattt ataattctgg 360
 gcaacaaaaa agtggatgtg tgccagcatc ttagagtaga atcctcttaa aaggatagca 420
 ctgcatatga actagtaggt ttaaccagt gcatatttag gcgaagtagc tcatttttct 480
 gttagaattc ttttttattt gggaatgggc aagcttttac agcttttacc ttgccaatga 540
 atacctggaa tttaaaaaat cttgttaggc atattgcccc taaagttttt tttcctagat 600
 catatattca gtaaataatgt ttgtagcttt atttcaatcc cccaattcat tgagggttga 660
 aacaatttga atgggtttgag tgtagaagct aagttatttc tgtagaggct aagggcattt 720
 ataccaanat atgttagact tngngntcct gttaaccatg ctgtanacaa taggaattac 780
 tgtatatcca cattttaatt ttaacatctt ctgctttgnt gntgggttga gangga 836

<210> 734
 <211> 694
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(694)
 <223> n=A,T,C or G

100252716550


```

<400> 734
nagtncatt tncactaaac tnggagtgcc ttggatggct ttcaggatgt cctgaatcct 60
ctataattgt atacaaaatc gtgagttttt aaaaactggg ttagagctat tggttcctca 120
gagtctcagg catcttagac ccccaaaaag gttaaggact actgacttaa ccaattaggt 180
ttgagtggca ttggctttga agaaaagcag aggaaagata tattttataa ttctgggcaa 240
caaaaagtgt gatgtgtgcc agcatcttag agtagaatcc tcttaaaagg atagcactgc 300
atatgaacta gtaggtttta accagtgcac atttaggcga agtagctcat tttctgtta 360
gaattctttt ttatttgga atgggcaagc ttttacagct tttaccttgc caatgaatac 420
ctggaattta aaaaatcttg ttaggcatat tgcccataaa gtttttttc ctagatcata 480
tattcagtaa atatgtttgt agctttatct caatcccca attcattgag ggttgaaaca 540
atttgaatgg tttgagtgtga gaagctaagt tatttctgtg gaggctaagg gcattttatac 600
caagatatgt tagacttgtg gttcctgtta accattgctg tagacaatag gaattactgt 660
atatccacat ttttaatttt aacatcattc tgtc 694

```

```

<210> 735
<211> 126
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(126)
<223> n=A,T,C or G

```

```

<400> 735
ncnttgaaac nggttgacca gacttcaggc ctgtgcgctc aatcgtggag aatctcgtgc 60
cgaattcggc acgagtctct ctctctctct ctctctctct ctctctctct ntctctctct 120
ctctct

```

```

<210> 736
<211> 165
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(165)
<223> n=A,T,C or G

```

```

<400> 736
cagaagcctt taaaccggtt ngaccagact tcaggcctgt gcgctcaatc gtggagaatc 60
tcgtgcgcaa ttgcgcacga gtctctctct ctctctctct ctctctctct ctctctctct 120
ctctctctct ctctctctct ctctctctct ctctctctct ctctc 165

```

```

<210> 737
<211> 125
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(125)
<223> n=A,T,C or G

```


<400> 737
 ggnagcccct ttaaccgttt gtccagactt caggcctgtg cgctcaatcg tggagaatct 60
 cgtgccgaat tcggcacgag tctctctctc tctctctctc tctctctctc tctctntctc 120
 tctct 125

<210> 738
 <211> 137
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(137)
 <223> n=A,T,C or G

<400> 738
 ggagncnctt gancaggatg accgacttca ggccctgtgcg ctcaatcgtg gagaatctcg 60
 tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120
 tctctctctc tctctct 137

<210> 739
 <211> 970
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(970)
 <223> n=A,T,C or G

<400> 739
 aggcctatatt aggtgacact atagaacaag tttgtacaaa aaagcagget ggtaccgggtc 60
 cggaattcgc ggccgcgtcg acggcccttn gtgccactag ntctttcatt cttccccccc 120
 atcaatcagt gaacttttta gcctactcaa agctttgctc caatgcatag gatttatgat 180
 tgtggggatt tccagataat ataaatattc aacatgaata ttttaaatta aggcattgaga 240
 catttttccct aactgagcat agccatgaac ctctcacgtc tgttcctctg tgcagtttg 300
 tancactgaa tacagcagcc ctctctaaaag tccaggcagt gcacagggtct tgacatgatg 360
 aagtgcgtg ttgctatggt gattttgcag ctggccaaat agtcaactggt tgattttacc 420
 cagcaggaga tttttgcaaa aatttcctgg gtgagagtga aatcaaactc ctattttgnt 480
 tctcctctgc aagctgnagt taagatggat taatgagtac ttttagatta attaactctg 540
 aagagaaaaa gggagaaaag tgaggaagggt tgttggcaga agtcattgct ggaatccttc 600
 tgaaggaggt actgacttca cttgcaaaga cnagagacta naagacaatg aagttaaact 660
 tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaattt aattctgtca 720
 tacgcatatn ggattatgtg gtcattggatt tgttggcact aaccngcctn taatcagnat 780
 aagaaaagtg ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgga 840
 aaaaatgntn gggggccttg ggtggtggtc tnaaaanacc ccctggggat ntttaaacca 900
 aaantgaaga agggaaaaat ntttcccnt nttttnttt tttgccccct tgggattggn 960
 tttntttcc 970

<210> 740
 <211> 739
 <212> DNA


```
<210> 744
<211> 127
<212> DNA
<213> Homo sapiens
```


<220>
 <221> misc_feature
 <222> (1)...(127)
 <223> n=A,T,C or G

<400> 744
 ttnacctccc tggaccgggc ccccttccc cgggcggntc ccccgggctg caggaattct 60
 gcacgaggga gagagagtn gagagagaga gagagagaga gagagagaga gagananaga 120
 gagagag 127

<210> 745
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(458)
 <223> n=A,T,C or G

<400> 745
 gatatcccg gattcgcggc cgcgtcgacg tggcctctag tttgtcctgg tccaaagcag 60
 ggaagctggg ctacgtcctg cccaggctcag ccttaggtta agggctgcct gggggaggga 120
 acttcctggg ccttcgggtc tctgtgcact ggggtggctc ctgtggccca gaatgccctg 180
 gagaagggtc ctactggaag cgaagggtgca gggcagcagg gcctgaggcg caggagctgg 240
 tggaggctcc cagcacaggt cgccgcccc gtcacatcac tgctgatggt ggggggactt 300
 ggggagtttc ccccgagaat gggaggcttc acagtcccc tgctgcaatg ctgtcgggtgc 360
 actgngncng caatgtgctc atggncactt gctttttctc tgtggccccg gccgatttat 420
 ccagcanngc acccctcttc tncctctccg anaaagcc 458

<210> 746
 <211> 893
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(893)
 <223> n=A,T,C or G

<400> 746
 aagcaggctg gtaccggtcc ggaattcgcg gccgcgtcga cgtggggagt tagctctctg 60
 gaccccgctca tagagtaagt catcgataga gcatttgctt gatggggact tccagaaggc 120
 canngaaagt cctgccgact tcctggggaa gcccatccgc acgtggggtg aggggtcccca 180
 natggaagca gctgtgtatg caggaggggg gcagaggctg ctgccaatgg gcatgtccct 240
 tacctgaaag ggccacctct ccagggtgaca tgcctgggg gagccggggc cgtctgctcc 300
 ggccagaggc gtcagctca ggccacacca ggcagggcac ctcccaacct ggacagggtg 360
 ggaccaagggt ggccttgac aaaactctct gtgtttgcc agcacccaat cggacacaga 420
 gagtcaacca caccacagtc acatggtgtc cacacngcag ggggtcaagga ggcccgcccc 480
 ctccccctca gacgtccctg ggccctctgg agtcagcaag gacgaggacg gcattgccct 540
 tcgagacagg aaggagtgga cctcctccc ggcgcaccca ggctcngctt ctccggagag 600
 gagagggggc tacttgctgg ataaancggc cggggccaca gagaaaaagc aagggtgacca 660
 tgagcacctt gcaaacacag tgcacccacc agcatttnag caccnnggac tgtgaagacc 720
 tcccatttct tcggggggaa acncgcccc ngttcccccc accntcacta gtgnattgtg 780

<210>	749
<211>	642
<212>	DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(642)

<223> n=A,T,C or G

<400> 749

```
ctntgtggcg gtgngtgtct catttgggtg gacttttttg gtcgtaggaa cctggtatgc 60
aggtccgcgg agcgtgggct ctogtcgtgg atggttgggg ttggtgtggt gccggttggt 120
tttggttctg ttgagcgtag tgtgtttgaa ggtagcgtt cgtgtcttgc ttgtggtttg 180
gtgttttaggg cgggtgggga gggtgttgtg tagctgttgt atgtcatatt gttggtgttg 240
ctgccctgtg ctgtttgtcc ttggttattg ttggtgttac cccgcctgtg tggaagtgtt 300
gtggcagggc gggaatttaa gtgggagagt tgtgggacct gtggttggtt ttacgttgct 360
gctttttgtc tgggcgggtg cggcgcgtct gataattaga attggatacg gagtgtataa 420
tacttctagt aaatggggac ctagtgcctg acttcccga atagggatct atgcgaagtc 480
cttaggatag tctttgataa gtttaacgcc caccacccta aaattataca cgattagacg 540
cataacgact cctccaggaa agataaagaa tctcacatat agaacgggac ccatacacg 600
tcggatagga aacaagagaa ctaattttng ttaaaaagac tt 642
```

<210> 750

<211> 639

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(639)

<223> n=A,T,C or G

<400> 750

```
tttgtggcgg tggtgtctca tttgggtgga tttttgggtc gtaggtaacc tggatatngag 60
gtatagatgc cgattgggtc cgacgagcgt caccataaat tcggtagttt gcccttttt 120
agaaggcgct agtactcgga acttcacttc atctcggtag ttacttttg cgtatatagc 180
cttctccctc gaagactagc cgtcacattc gttccctagg aatcgtttct gccctaaga 240
atccgagagc gagatccgga aactagagga acctagaag agtcgtattt ccacaaggac 300
cccacagtca ttccgggaaa atccctagga ccatacggtt aggattcccc cggaacccgg 360
agcaaagctc atgattttcc acaccgcgag agcgcctata accctatccc atttcttcgg 420
gttatcgagg atattacgat caagccgaga gaaccgctag aaccgctttc ttcgctttct 480
cacggaacct ataagtagaa agagaaactc aggtcttaag ggggcgcttc ggctaacgaa 540
acttctactt acgaagagag tatctagaca ttaagtcata aaaatccact acgcacctcg 600
tgtacgatat catcgggagc ggttcataga cggtgtccg 639
```

<210> 751

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(637)

<223> n=A,T,C or G

<400> 751

TTGCGGTTCTG


```

cttttgtggc ggnggtgtct catttgggtg gatttttggg tcgtaggnaa cctgggatng 60
aggcagctct gagccccccc cccccccccc ccccccnccc ccccccccta ggnggttggg 120
aanacggtgg atacctaaat cgagtgngtt cattaaaagt agttgattac nccctaaaat 180
aanaanaggg cttcgtcggg anaaatcggt aagganaagt ctttntggca tcataanaat 240
actggctcgg gtccctaanat ntttaaggng gtcnccgagg gtnttcatac cgataanaaa 300
cgtttttccta tcggcaacgg gcttacctga gggnggactt ctnccgngc ggngattnan 360
acgaanacgt agaggattnc cgntacttnt tganatcacn cgtatcatac ttgtaagcat 420
aattntcctg aaaagtgtta taanaatacg cncgcataatt cgctttttcg tcctagggat 480
gcttaaatgg cgatactgct atagcgggtg agcgttggtt ctcgagnaan aaagcgtgtc 540
ctaatgcgtc taaggnttta agnccgttgg tttaaaaata nccttagaaa cctcgaggcg 600
gatactggtt tntttttaac gaaacaaagc accccnn 637

```

```

<210> 752
<211> 644
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(644)
<223> n=A,T,C or G

```

```

<400> 752
tntgtggcgg tgggtgctcat ttgggtggat ttttgggtcg taggaacctg gtatgaggtc 60
ttgcgagttg ttgggtgtgtc ctgtcggttcg gtggttccct tttgagttga gtttgtcctt 120
tgaggttggt agctgctggt cgtttgtggt cgtgtagtgc tttgggttga gagggttatg 180
gtggtggtta cggtgtattg tcgcccgtgg tcgcggggtt ggggtggtcg tcggttttgt 240
ggttcatagt agtcttctgc gttcgggtgtt gcgggtttgg gtgagtagtt tcgttcttgg 300
atgtccattt gaccgcgcat aatctaagta agggtagta gaaacctctc cccgatagac 360
acaaccgtcg tccactaaag acctcgcttc tgatttttaa aaggaccgga aaaacatccc 420
ttcaacggaa aaaacggaaa aaaagtcagc gaattcaaag aagccacggg agagaaaaaa 480
gaactaaagt tagtccgtca ttatatgtct cctcgaggga ggaagcggcg gtggcgga 540
atgaggcggg aagaaagacg acctctatcg gcggcttang ccctaaaagg gcgatacctt 600
acgggatgat aaggacccta ggacgcctcc ttctcggtac gtcc 644

```

```

<210> 753
<211> 635
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(635)
<223> n=A,T,C or G

```

```

<400> 753
ctttgtggcg gtggtgctca tttgggtgga tttttgggtc gtaggaacct ggtatgaggg 60
aatcagctcg accccccccc cccccccccc ccgaagcaga gcccaacca aagtcaccg 120
actaccgag taaactctcg gagggtagaa taagaaggag taggtcctag ccaatagaag 180
tagttccgag ccgttaggac agcggacgga acattnaaga aagagcctat attagggagg 240
aagtaacgtt cctctttcgg agctctttaa ggggtagtcc cagaacaagg gaagaggacc 300
cgtcggctat tgcccgtcga tacgggctct cacgngagc ctaggttcga ggatagggcc 360
gctcgtaaaa ttatacgggt tccgagaaac gcttccgtag accgggtcct aaatcgtccg 420
gagtattngg agagggatcc ttcggaccct agggacagag agaggagaac ggaggttaca 480

```



```

ggaggagaac gntcctcnc tagttttctt tangtcgaaa aatttccttac cgatagggtt 540
cctagggtcg gngaattttac ggttcgaaaa acggtagtn ctaanggntg ntattngggg 600
tagtatcggg tcggtttacaa ntcgtccgctc ttntg 635

```

```

<210> 754
<211> 721
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(721)
<223> n=A,T,C or G

```

```

<400> 754
accggattng ttntctgagcg cgtgactgct aataaaaaag atggantgcc atctttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaaatttg 120
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaaggga gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gttttgtagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300
atggagttgt gatgcctgca acttaccaaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agaggggagaa taaggagtgc tccccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc ttgctttctt cccccacctc ttccccagct ctctctctgt 540
ctctctcttg ntccccctgac ccttttttct tcccantgca tacttttttn tttccctttt 600
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721

```

```

<210> 755
<211> 721
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(721)
<223> n=A,T,C or G

```

```

<400> 755
accggattng ttntctgagcg cgtgactgct aataaaaaag atggantgcc atctttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaaatttg 120
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaaggga gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gttttgtagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300
atggagttgt gatgcctgca acttaccaaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agaggggagaa taaggagtgc tccccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc ttgctttctt cccccacctc ttccccagct ctctctctgt 540
ctctctcttg ntccccctgac ccttttttct tcccantgca tacttttttn tttccctttt 600
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721

```


<210> 756
 <211> 873
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(873)
 <223> n=A,T,C or G

<400> 756
 ggaagaatac agtaagtttg caaattaaaa tttctctatt tttctgttat ttattcattt 60
 ggaaactgtc agcctgtctc tttcactttg ggcaagtga agcaaagacg tccagtccta 120
 tcagcaatta ggctgaaagt caacgccaaag ctggcgggca agggctggtc tgagtagagg 180
 ttccctaggc aggcaagaga gagactccca ctcgatactc ccagctcggc aactgcctga 240
 atgccaatga gcactcatta taacccgccc tattttatag gatttaattt tacacttcag 300
 gcttaatcag tctgaaagtt aaactgacag tgtaagtta cggaatcaat gacatttagg 360
 ctttatgact ttgtagctga atatctatgg gctatatctc cattctaaca gtgatacct 420
 gttccagaat ctcatctttt ggtgatggca ctttctagtg gagcagtcac ggtaacagtc 480
 cacacccatt accatgtggg tgctttacag catactgacg gaaggactga ggagccaccg 540
 gagcaggagt tcctctcagg gaggacgctg acacttcac agctgcctan gtatgggcac 600
 ctgatgccaa cgaanaaccc aaagcgctct cccttcacga tgggaagctgc cccacactgg 660
 gctgacagca tctggagctg ctctggctca aatcccggaa tcgcacanct cctancgggg 720
 gcgtttanag atcctcnggg ccagctaccg accacttttg acaaggggnc taggagcgat 780
 aactagnctg gcgcgttaca cncggatgga acgtcttgga cttgagacct cttgggggan 840
 atggcncccc caaataantt gggaaaantn ggg 873

<210> 757
 <211> 782
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(782)
 <223> n=A,T,C or G

<400> 757
 ggccccctcga gggatactct agagcgggccg ccgactagtg agctcgtcga cgatatcccg 60
 ggatttgaga ccaggagaca gctccagatg ctgtcagccc agtgctgggg gcaggcttcc 120
 atctgtgaag tggagaggcg ctttgggctt cttcgttggc atcaggtgcc catacctagg 180
 gcagctgtgg aagtgtcagc gtccctccctg agaggaaactc ctgctccggt ggctcctcag 240
 tccttccgctc agtatgctgt aaagcaccca catggtaatg ggtgnggact ggtaccatga 300
 ctgntccctt aaaagggtggc cttcccnaag aaaggagaat tcttggaacna gggatttcac 360
 ttgnttagaa atgggaaaaa ttaccattga gaattttcgn ttccaaggcn tnaagnccca 420
 aaaggccttt gattcccgaa ccttaaccct gggcagttaa cttttcaaac gggataaacc 480
 ctgangggga aaatnaaatc ctttaaaaaa gggggggttt naaggagggc tctttggctt 540
 tcaggcantt gccaacctgg gaaattcana ggggaagtnt ttttttttgc ctgcctaggg 600
 aacctttact taaacnaacc cttgnccccc catttggggt tgactttcan cctaattgct 660
 gaaaggaccg ggccgntttt gntttccctt gncccaaagg naaanaaacg ggtgccantt 720
 cccangggat tanttcccgaa aaatttggnn aattttntt tagnaactttt tgggtttttt 780
 cc 782

<210> 758


```
<220>  
<221> misc_feature  
<222> (1)...(644)  
<223> n=A,T,C or G
```



```
<210> 761
<211> 647
<212> DNA
<213> Homo sapiens
```

<400> 761						
ctttgtggcg	gtggtgtctc	atttgggtgg	actttttggg	tcgtaggaac	ctggtatnga	60
ggcgggtact	ctctgggata	atcgggtataa	gtgttgtaaa	attgggggta	agagaaagtt	120
tcattataag	aagtggaagc	acgagccggg	gtgtttagtc	gttaatatata	agaccggttt	180
ttgttgctact	tatatagctt	gcgcgtgggg	agccaataag	aaacatttgcg	tttcgaggcc	240
ggatgcgggg	aacctctctc	ggggtctaga	gcgcgcgcatc	tgcaaaataa	ggactactga	300
cgccgctcat	aacgtactca	acaatgagtc	ggcctgcatt	aagatttctcg	cgaagaaccg	360
tactgcgtct	actgatagta	tattgcattg	atagcggcat	gagctttatc	acgtgtcgtt	420
ttcgggttgt	aagaaggag	ttaagtcgat	cttcgaggaa	gaagagaccc	caaataaaaa	480
atgactcaaaa	aaaacctaga	agaaaacacga	cgaagggaaa	agaacgtta	aaactagtag	540
ctcttcggan	gagtagcctt	agtagggtaa	gtcctccgtg	cgtactgtcc	taaggitttg	600
ataqcqcqgt	tgaatagacg	gtcacgcgtc	agaaggtataa	aanccgg		647

```
<220>  
<221> misc_feature  
<222> (1)...(628)  
<223> n=A,T,C or G
```

<400> 762						
cattgtgttg	gggtcactga	gcccactttt	ttccagattt	tttgtaaaat	tgtttcgcat	60
tgtgttcctt	ttattcgctt	gtattaatat	ttgcgtagtg	gattaaacaa	atacttggtg	120
ttgactgtca	gtcttagagg	actgactaga	agtagttttc	atttggggct	caggaaatac	180
ctactttata	tttcttagcta	attaggaaag	tcatttttca	gttaggttgg	tgtttttggt	240
caggcactcg	ctagctagat	gacctaacat	gcttacttae	ttctgtagtg	ttgtgtccat	300
ccctqtatga	ttgtttgcgg	gttaaatgaa	attctgtata	tttgtaaagc	attttactca	360

gtgcccagac tgtgacagag tagattatta ggcttgctct tatttctgtg attaaattta 420
 gtgtcagatt agcaacctat agctacttct aaagctgctg ctgctttctt tgtttagggt 480
 taggaagaaa catgctggac agtttgccaa atgagagtta catgatgtgg cttgtgggaa 540
 cattctaact tggaaacttg ccatttccag gactttgngg ttcanagatt tttggggata 600
 gatgtaaggg ttataaaaaa cngaaaac 628

<210> 763
 <211> 147
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(147)
 <223> n=A,T,C or G

<400> 763
 cattgtgttg gggcagagat aaataattcc tctgaaaagt gttttatttg aatttcaa 60
 gaaaagctaa ctggataact tacagcatgt ttctgccaat aatctcttan aacaggcctc 120
 ttttttttat gcacaccacc ttcnggc 147

<210> 764
 <211> 146
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(146)
 <223> n=A,T,C or G

<400> 764
 cattgtgttg ggtatgtttt ttgaaggcag gtggacagga tttgctgatg ggtaaatggc 60
 agagtttagg ggactgttag aacagagaaa ganatcatgg ggttgggttt gagtctgatg 120
 nnnaactggt gccgnntgct cagtat 146

<210> 765
 <211> 129
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(129)
 <223> n=A,T,C or G

<400> 765
 tncncgattc gntnctagcg tntacactna tgtcttggtta ccgagctcgg atccactagt 60
 ccagtgtggg nggaattcca ttgtgttggg gcaggaggng ctttgngtac ngtgcggtg 120
 nagaggcgg 129

<210> 766
 <211> 175
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(175)

<223> n=A,T,C or G

<400> 766

```
cattgtgttg ggcctagtcc gaatactttt agtaacttca gacagatctc ctcattctctt 60
tctggggcctt ggnnttttctc ctttgtanaa tgatgccttt ctgtgggtttt gtcattttcta 120
acattctgtg ngtgatgagg tgtatatctg anganctcta tcnccanagt actct 175
```

<210> 767

<211> 602

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(602)

<223> n=A,T,C or G

<400> 767

```
nnnttttaaaa nctgtntctcc ccgcgggtggc ggccgctcta gaactagtgg atcctttcca 60
cctggtttgtt tttcagtggt taatcctatt agtatcagca ggatataggt caggatatca 120
ggtgcagaac ctgtggaatc agccaatttg gcttgctcat ttactttaat aaggccccat 180
aatgagtgag agtacaaaagt tcaagccctg ttgagggtct gcattaaact ctcagaagta 240
tttagagtggt gccaggagcc gcgaagggtct gggtcgggtg gtggcgggaa ctgtattaga 300
gtgctaggca cggcgcgaca aagtctgtcc aacccaaaac ggtgctgagg cgttggggtg 360
gagctccagt actcagaaaa gcattctcagc aggtactcaa cagatcctca ggggcttggg 420
ggcccagcac tggcagtgag ggcatgaaag acataaaaagg gcactacctg tgggtatttt 480
ctgtttctcca aggaggaagt agcaaaaatt aggacgtgg aatatcctat gttgtagcaa 540
tcccagaaca actgatgctc aacaaatacc acacaaaaca aattttttta aatttaaatct 600
ta 602
```

<210> 768

<211> 671

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(671)

<223> n=A,T,C or G

<400> 768

```
tccaccgcgg tggcggccgc tctagactag tggatccact agtccagtgt ggggtgggaat 60
tcgcggcncg cgtcgacaaa aatactgcta aagtaatat tttatagatg actatttgcc 120
ttggggccag gaaaagcagc tggagttatt cacttagtac cttttttaca tactaaactt 180
gcctttttcca tgcttgcttg atgcggcttg cagcactgaa gaacagtttc aattgctagc 240
caaccagaga gcatgatcaa accaaacaag ttccctgttt caggaaaaaac aggttttagg 300
taactgaagg gttaccagtt actgattcca caatcttctc tgtaaaanatt ttctgcctat 360
tatgcagatg gggcggcttt aaanntggta aaactatnaa ataccatac aatattttta 420
ngggggcccn ttatnaagct tttcaggcct tcccctttcc atagcattgg tgggatacaa 480
```



```

gaaaccttta aacagcaacn agctatcnag gcccaaaagg aaagtaattn tgatttttta 540
nagattccgn aacgaaaaaa tggctgggtt caaatacnac cttcttttta aaatggnttc 600
cttattaaac nttttttttt ttttaatttta ccccatggtc ntgatnttng ngcttccgcc 660
canaaaatng n                                         671

```

```

<210> 769
<211> 877
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(877)
<223> n=A,T,C or G

```

```

<400> 769
aaagctggag ctccccgcgg tggcggcgcg tctagaacta gtggatccac tagtccanng 60
ngggggaatt cgcggccgcg tcgaccteta tacctttgnt catgcagctt cctctgactg 120
ggtttggtct tcaattggct aacccctctt ttacttaagc acaccttgaa cattccctcc 180
ttccccatth cccgcgagng cccctaattg acatacttct gaataacaca ggtgggtattc 240
cttcttgggt ggaacctcct ggaggaagag acagatgatt aacaaatcct tccatcaacc 300
cctttgacca tgacatcaac agtgctccaa attatggggt accgtattag cctatgtcta 360
tcttgatcag aatccttacc tcggtgtatt gaaattatct atttcgtgcc tgcctcttta 420
aagtcagggt ttgccttacc tattgtctaa caccatgcag taggtaacat gcagtaggaa 480
acatggcatt aaattatttg ggttcaaadc ccagttatgg tgtgtaaag cctaccaggc 540
cgtgaggcac ctgctaagca gggtgcacgc atcatttgaa ttcacaccac ccttttgcaa 600
tagaacagat aggcaacaga ggctcatttg ggctaaagga tttgatggag ggggaagtgcc 660
aggattccca ccaaggcctc anggcccgag tccanggacc atgtctgttg tgacaactgg 720
agtgcatthc atatccctn ctctgngggg naaggctcct cncgnggaga acnnttaaaa 780
caatcatnrc tngggggntt aatgcttctt nccccagtgt ggtncactgc ngccacgagt 840
ccanccact agtccangt ctgtcatgaa ccanccc                                         877

```

```

<210> 770
<211> 874
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(874)
<223> n=A,T,C or G

```

```

<400> 770
ctggnctccc cgcggtggcg gccgctctag aactagtgga tccactagtc cagtgtggtg 60
gaattcgcgg cgcgctcgac cttttcaaag gtttaacttat ttaattatca canngcaac 120
ccgatgagta ggtaacagta ttttactgat aggtaatcta aagaaggagg ctaaataaat 180
tgcccaatth cgaacagtga gaggaagaat taggattgaa acacatatag tggcttcaga 240
atctgtaacc ctacagatgc cactactact tctttcagaa taccctttgc ctatctattc 300
tgttcctatg tcatcaaatt atacttactt taaaaagtat ttgtctttat tatttttaaa 360
aaaacacagg gaagtatttc tgatcagggg cagtattggg tctgaaagac aagccagtgt 420
ttttgagggt ttctcccttg ccagtttttc tatgctgggt tattcaagtc ctaagaattg 480
tgtagctatt acagaaccgc tttagcaaat gtgttccatt aatcaagggt atttataaca 540
aaatttcatc caagtttgga gtgctctgaa aacatagcca aaatgttcgc agggcttacc 600
cctctcgtgt gtcccttttt tttagctatt tcagaagcac actggtgcaa tattttacga 660

```



```
aatgagtttc ttccctttac ctctgcatcc tctaagaaaa aatcattgnt gttttatgaa 720
natgaanatc ctgctatttc atatcttgat tggagctgct taattaaaatg accatttttna 780
aatttgtttt gattccnngc aaaaaaagtt tnttnttga tgtagggggc tcnnaaagnc 840
caaaaccccc caaaattttt nnttggaac ccna 874
```



```

actacaactg gcaggcaacc cttcaaaatg agtctggcaa agaggtcaca gtggctgtca 360
ccagttcccc caatgccatc ctgggcaagt accaactaaa cgtgaaaact ggaaaccaca 420
tccttaagtc tgaagaaaac atcctatacc ttctcttcaa cccatggtgt aaagaggaca 480
tggttttcat gcctgatgag gacgagcgca aagagtacat cctcaatgac acgggctgcc 540
attacgtggg ggctgccaga agtatcaaat gcaaaccctg gaactttggt cagtttgaga 600
aaaatgtcct ggactgctgc atttccctgc tgactgagag ctccctcaag cccacagata 660
ggagggaccc cgtgctggtg tgcagggcca tgtgtgctat gatgagcttt gagaaaggcc 720
agggcgtgct cattgggaat tggactgggg actatgaagg tggcacagcc ccatacaagt 780
ggacaggcag tgccccgatc ctgcagcagt actacaacac gaagcaggct gtgtgctttg 840
gccagtgctg ggtgtttgct gggatcctga ctacagtgtg gagagcgttg ggcatcccag 900
cacgcagtgt gacaggcttc gattcagctc acgacacaga aaggaacctc acggtggaca 960
cctatgtgaa tgagaatggc aagaaaatca ccagtatgac ccacgactct gtctggaatt 1020
tccatgtgtg gacggatgcc tggatgaagc gaccggatct gcccaagggc tacgacggct 1080
ggcaggctgt ggacgcaacg ccgcaggagc gaagccaggg tgtcttctgc tgtgggccat 1140
caccactgac cgccatccgc aaaggtgaca tctttattgt ctatgacacc agattcgtct 1200
tctcagaagt gaatggtgac aggtcatctt ggttggtgaa gatggtgaat gggcaggagg 1260
agttacacgt aatttcaatg gagaccacaa gcatcgggaa aaacatcagc accaaggcag 1320
tgggccaaga caggcggaga gatatacctt atgagtacaa gtatccagaa ggctcctctg 1380
aggagaggca ggtcatggat catgccttcc tcttctcag ttctgagagg gagcacagac 1440
gacctgtaaa agagaaacttt cttcacatgt cgggtacaatc agatgatgtg ctgctgggaa 1500
actctgttaa ttaccacgtg attcttaaaa ggaagaccgc tgcctacag aatgtcaaca 1560
tcttgggctc ctttgaacta cagttgtaca ctggcaagaa gatggcaaaa ctgtgtgacc 1620
tcaataagac ctgcgagatc caaggtcaag tatcagaagt gactctgacc ttggactcca 1680
agacctacat caacagcctg gctatattag atgatgagcc agttatcaga ggtttcatca 1740
ttgcggaaat tgtggagtct aaggaaatca tggcctctga agtattcacg tctttccagt 1800
accctgagtt ctctatagag ttgcctaaca caggcagaat tggccagcta cttgtctgca 1860
attgtatctt caagaatacc ctggccatcc ctttgactga cgtcaagttc tctttggaaa 1920
gcctgggcat ctctcacta cagacctctg accatgggac ggtgcagcct ggtgagacca 1980
tccaatccca aataaaatgc accccaataa aaactggacc caagaaattt atcgtcaagt 2040
taagttccaa acaagtgaag gagattaatg ctcagaagat tgttctcatc accaagtagc 2100
cttgtctgat gctgtggagc cttagttgag atttcagcat ttcctacctt gtgcttagct 2160
ttcagattat ggatgattaa atttgatgac ttatatgagg gcagattcaa gagccagcag 2220
gtcaaaaagg ccaacacaa c cataagcagc cagaccaca aggccaggtc ctgtgctatc 2280
acaggggtcac ctctttttaca gttagaaaca ccagccgagg ccacagaatc ccattccctt 2340
cctgagtcac ggccctcaaaa atcagggcca ccattgtctc aattcaaate catagatttc 2400
gaagccacag agtctctccc tggagcagca gactatgggc agcccagtcg tgccacctgc 2460
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tattgctctc attctctct ctctatccct gaaatccagg aagtcctctc cctgggtgctc 2640
caagcagttt gaagcccaat ctgcaaggac atttctcaag ggccatgtgg ttttgagac 2700
aaccctgtcc tcaggcctga actcaccata gagaccatg tcagcaaacg gtgaccagca 2760
aatcctcttc ccttattcta aagctgcccc ttgggagact ccaggggagaa ggcattgctt 2820
cctccctggt gtgaactctt tctttggtat tccatccact atcctggcaa ctcaaggctg 2880
cttctgttaa ctgaagcctg ctccctcttg ttctgcctc cagagatttg ctcaaatgat 2940
caataagctt taaattaaac tctacttcaa gaaaaaaaaa ccg 2983

```

<210> 774

<211> 3064

<212> DNA

<213> Homo sapiens

<400> 774

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aattctaaaa atgcttttgc aagcttgcac gcctgcaggt gcagcggccg ccagtgtgat 60
ggatatctgc agaattcggc ttgcgctcag ctggaattcc gcagagatag agtcttccct 120

```



```

ggcattgcag gagagaatct gaagggatga tggatgcac aaaagagctg caagttctcc 180
acattgactt cttgaatcag gacaacgccg tttctcacca cacatgggag ttccaaacga 240
gcagtcctgt gttccggcga ggacaggtgt ttcacctgcg gctggtgctg aaccagcccc 300
tacaatccta ccaccaactg aaactggaat tcagcacagg gccgaatcct agcatcgcca 360
aacacaccct ggtggtgctc gacccgagga cgccctcaga cactacaac tggcaggcaa 420
cccttcaaaa tgagtctggc aaagaggtca cagtggctgt caccagttcc cccaatgcca 480
tcctgggcaa gtaccaacta aacgtgaaaa ctggaaacca catccttaag tctgaagaaa 540
acatcctata ccttctcttc aacccatggt gtaaaagagga catggttttc atgcctgatg 600
aggacgagcg caaagagtac atcctcaatg acacgggctg ccattacgtg ggggctgcca 660
gaagtatcaa atgcaaacc tggaaacttg gtcaagtgtga gaaaaatgtc ctggactgct 720
gcatttcctt gctgactgag agtcctctca agccacaga taggaggagc cccgtgctgg 780
tgtgcagggc catgtgtgct atgatgagct ttgagaaagg ccagggcgtg ctcatggga 840
attggactgg ggactacgaa ggtggcacag cccatacaa gtggacaggc agtgccccga 900
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<210> 778

<211> 1095

<212> PRT

<213> Homo sapiens

<400> 778

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 1090 1095

<212> DNA
 <213> Homo sapiens

<400> 786
 tacaccatcg ggctgggcct gcacagtctt gaggccgacc aagag 45

<210> 787
 <211> 42
 <212> DNA
 <213> Homo sapiens

<400> 787
 ttccagaact cctacacccat cgggctgggc ctgcacagtc tt 42

<210> 788
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 788
 ctgtcagccg cacactgttt ccagaactcc tacaccatcg ggctg 45

<210> 789
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 789
 catccgcagt ggggtgctgtc agccgcacac tgtttccaga actcc 45

<210> 790
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 790
 tcgggcgtcc tgggtgcatcc gcagtgggtg ctgtcagccg cacac 45

<210> 791
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 791
 aacgaattgt tctgctcggg cgtcctggtg catccgcagt ggggtg 45

<210> 792
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 792
 gcactggtca tggaaaacga attgttctgc tcgggcgtcc tgggtg 45


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<210> 793
<211> 51
<212> DNA
<213> Homo sapiens

<400> 793
tcgcagccct ggcaggcggc actggtcatg gaaaacgaat tgttctgctc g          51

<210> 794
<211> 45
<212> DNA
<213> Homo sapiens

<400> 794
atcagcattg cttcgcagtg ccctaccgcg gggaactctt gcctc          45

<210> 795
<211> 45
<212> DNA
<213> Homo sapiens

<400> 795
tccgtgtccg agtctgacac catccggagc atcagcattg cttcg          45

<210> 796
<211> 45
<212> DNA
<213> Homo sapiens

<400> 796
atcaagttgg acgaatccgt gtccgagtct gacaccatcc ggagc          45

<210> 797
<211> 45
<212> DNA
<213> Homo sapiens

<400> 797
aacgacctca tgctcatcaa gttggacgaa tccgtgtccg agtct          45

<210> 798
<211> 45
<212> DNA
<213> Homo sapiens

<400> 798
agacccttgc tcgctaacga cctcatgctc atcaagttgg acgaa          45

<210> 799
<211> 15
<212> PRT
<213> Homo sapiens

<400> 799

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```
<400> 804
Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
          5              10              15
```



```
<210> 805
<211> 15
<212> PRT
<213> Homo sapiens
```

<400> 805
His Pro Gln Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser
5 10 15

```
<210> 806
<211> 15
<212> PRT
<213> Homo sapiens
```

<400> 806
Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His
 5 10 15

```
<210> 807
<211> 15
<212> PRT
<213> Homo sapiens
```

<400> 807
Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val
5 10 15

```
<210> 808
<211> 15
<212> PRT
<213> Homo sapiens
```

<400> 808
Ala Leu Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val
 5 10 15

```
<210> 809
<211> 17
<212> PRT
<213> Homo sapiens
```

<400> 809
Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe Cys
5 10 15

Ser

<210> 810

$\langle 220 \rangle$

<400> 815

35

<211> 29

<212> DNA

<213> Artificial Sequence

 $\langle 220 \rangle$

<223> PCR primer

<400> 816

29

<210> 817

<211> 1959

<212> DNA

<213> Homo sapiens

<400> 817

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cggagcacag	acttgtctta	cagtgaaaagc	gacttggtga	attttattca	agcaaatttt	120
aagaaacgag	aatgtgtctt	ctttaccaa	gattccaagg	ccacggagaa	tgtgtgcaag	180
tgtggctatg	cccagagcca	gcacatggaa	ggcaccaga	tcaaccaaag	tgagaaatgg	240
aactacaaga	aacacaccaa	ggaatttcct	accgacgcct	ttggggatat	tcagtttgag	300
acactgggga	agaaagggaa	gtatatacgt	ctgtcctgcg	acacggacgc	ggaaatcctt	360
tacgagctgc	tgaccacgca	ctggcacctg	aaaacaccca	acctggtcat	ttctgtgacc	420
ggggggccca	agaacttcgc	cctgaagcgc	cgcattgcga	agatcttcag	ccggctcatc	480
tacatcgcg	agtccaaagg	tgcttggatt	ctcaccggag	gcaccatta	tggcctgatg	540
aagtacatcg	gggaggtggt	gagagataac	accatcgaca	ggagttcaga	ggagaatatt	600
gtggccattg	gcatagcagc	ttggggcatg	gtctccaacc	gggacaccct	catcaggaat	660
tgcgatgctg	agggctattt	tttagcccag	taccttatgg	atgacttcac	aagagatcca	720
ctgtatatcc	tggacaacaa	ccacacacat	ttgtgtctcg	tggacaatgg	ctgtcatgga	780
catcccactg	tcgaagcaaa	gctccggaat	cagctagaga	agtatatctc	tgagcgcact	840
attcaagatt	ccaactatgg	tggcaagatc	cccatttgtgt	gttttgccca	aggaggtgga	900
aaagagactt	tgaaagccat	caatacctcc	atcaaaaaata	aaattccttg	tgtggtggtg	960
gaaggctcgg	gccagatcgc	tgatgtgatc	gctagccttg	tggaggtgga	ggatgcctg	1020
acatcttctg	ccgtcaagga	gaagctgggtg	cgtctttttc	cccgcacggt	gtccccgctg	1080
ccctgaggag	agactgagag	ttgtagcaaa	tggctcaaag	aaattctcga	atgttctcac	1140
ctattaacag	ttattaaaat	ggaagaagct	ggggatgaaa	ttgtgagcaa	tgccatctcc	1200
tacgctctat	acaaagcctt	cagcaccagt	gagcaagaca	aggataactg	gaatgggcag	1260
ctgaagcttc	tgctggagtg	gaaccagctg	gacttagcca	atgatgagat	tttcaccaat	1320
gaccgccgat	gggagtctgc	tgacctcaa	gaagtcatgt	ttacggctct	cataaaggac	1380
agacccaagt	ttgtccgcct	cttctcggag	aatggcttga	acctacgga	gtttctcacc	1440
catgatgtcc	tactgaact	cttctccaac	cacttcagca	cgcttgtgta	ccggaatctg	1500
cagatcgcca	agaattccta	taatgatgcc	ctcctcacgt	ttgtctggaa	actggttgcg	1560
aacttccgaa	gaggcttcgc	gaaggaaagc	agaaatggcc	gggacgagat	ggacatgaaa	1620
ctccacgacg	tgtctcctat	tactcggcac	cccctgcaag	ctctcttcac	ctgggccatt	1680
cttcagaata	agaaggaaact	ctccaaagtc	atttgggagc	agaccagggg	ctgcactctg	1740
gcagccctqg	gagccagcaa	gcttctgaag	actctggcca	aagtgaagaa	cgacatcaat	1800

Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro
225 230 235 240

Leu	Tyr	Ile	Leu	Asp	Asn	Asn	His	Thr	His	Leu	Leu	Leu	Val	Asp	Asn	
				245					250					255		
Gly	Cys	His	Gly	His	Pro	Thr	Val	Glu	Ala	Lys	Leu	Arg	Asn	Gln	Leu	
				260					265					270		
Glu	Lys	Tyr	Ile	Ser	Glu	Arg	Thr	Ile	Gln	Asp	Ser	Asn	Tyr	Gly	Gly	
				275					280					285		
Lys	Ile	Pro	Ile	Val	Cys	Phe	Ala	Gln	Gly	Gly	Gly	Lys	Glu	Thr	Leu	
				290					295					300		
Lys	Ala	Ile	Asn	Thr	Ser	Ile	Lys	Asn	Lys	Ile	Pro	Cys	Val	Val	Val	
				305					310					315		
Glu	Gly	Ser	Gly	Gln	Ile	Ala	Asp	Val	Ile	Ala	Ser	Leu	Val	Glu	Val	
				325					330					335		
Glu	Asp	Ala	Leu	Thr	Ser	Ser	Ala	Val	Lys	Glu	Lys	Leu	Val	Arg	Phe	
				340					345					350		
Leu	Pro	Arg	Thr	Val	Ser	Arg	Leu	Pro	Glu	Glu	Glu	Thr	Glu	Ser	Trp	
				355					360					365		
Ile	Lys	Trp	Leu	Lys	Glu	Ile	Leu	Glu	Cys	Ser	His	Leu	Leu	Thr	Val	
				370					375					380		
Ile	Lys	Met	Glu	Glu	Ala	Gly	Asp	Glu	Ile	Val	Ser	Asn	Ala	Ile	Ser	
				385					390					395		
Tyr	Ala	Leu	Tyr	Lys	Ala	Phe	Ser	Thr	Ser	Glu	Gln	Asp	Lys	Asp	Asn	
				405					410					415		
Trp	Asn	Gly	Gln	Leu	Lys	Leu	Leu	Leu	Glu	Trp	Asn	Gln	Leu	Asp	Leu	
				420					425					430		
Ala	Asn	Asp	Glu	Ile	Phe	Thr	Asn	Asp	Arg	Arg	Trp	Glu	Ser	Ala	Asp	
				435					440					445		
Leu	Gln	Glu	Val	Met	Phe	Thr	Ala	Leu	Ile	Lys	Asp	Arg	Pro	Lys	Phe	
				450					455					460		
Val	Arg	Leu	Phe	Leu	Glu	Asn	Gly	Leu	Asn	Leu	Arg	Lys	Phe	Leu	Thr	
				465					470					475		
His	Asp	Val	Leu	Thr	Glu	Leu	Phe	Ser	Asn	His	Phe	Ser	Thr	Leu	Val	
				485					490					495		
Tyr	Arg	Asn	Leu	Gln	Ile	Ala	Lys	Asn	Ser	Tyr	Asn	Asp	Ala	Leu	Leu	
				500					505					510		
Thr	Phe	Val	Trp	Lys	Leu	Val	Ala	Asn	Phe	Arg	Arg	Gly	Phe	Arg	Lys	
				515					520					525		

[illegible]

7. $\frac{1}{2}$

```

<400> 819
Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
1          5          10          15
Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
20          25          30
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
35          40          45
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
50          55          60
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
65          70          75          80
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
85          90          95
Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
100         105         110
Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
115         120         125
Gly Pro Pro Ala
130

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<210> 820
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 820
 ggggaattca tgatccggga gaaatttgcc cactgc 36

<210> 821
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 821
 gggctcgagt caggagtttg agaccagcct ggc 33

<210> 822
 <211> 675
 <212> DNA
 <213> Homo sapiens

<400> 822
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
 accgttcata tcgggcctac cgccttcctc ggcttggttg ttgtcgacaa caacggcaac 180
 ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggc cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcacatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
 ggcacgcgta caggaacgt gacattggcc gagggacccc cggccgaatt catgatccgg 420
 gagaaatttg ccactgcac cgtgctaacc attgcacaca gattgaacac cattattgac 480
 agcgacaaga taatggtttt agattcagga agactgaaag aatatgatga gccgtatgtt 540
 ttgctgcaaa ataaagagag cctattttac aagatggtgc aacaactggg caaggcagaa 600
 gccgtgccc tctactgaaac agcaaaacag agatgggggtt tcaccatgtt ggccaggctg 660
 gtctcaaact cctga 675

<210> 823
 <211> 291
 <212> DNA
 <213> Homo sapiens

<400> 823
 atggggatcc gggagaaatt tgccactgc accgtgctaa ccattgcaca cagattgaac 60
 accattattg acagcgacaa gataatggtt ttagattcag gaagactgaa agaatatgat 120
 gagccgtatg ttttgctgca aaataaagag agcctatgtt acaagatggt gcaacaactg 180

Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys

<400> 827

Leu Ala Arg Leu Val Ser Asn Ser Leu Glu His His His His His His
85 90 95

<400> 830
gcatggacca tatgtcaqcc attgagaggg tgtcagag 38

<210> 831
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 831
 ccgctcgaga ataaggaaaa tgaagacaat ccag 34

<210> 832
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 832
 gttgaattca tgcacggggcc ccaggtg 27

<210> 833
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 833
 cccctcgagt cactatgggtc tgcctcttga 30

<210> 834
 <211> 915
 <212> DNA
 <213> Homo sapiens

<400> 834
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
 ggcgacagag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcatcatcc cggtgacgtc atctcggtga cctggcaaac caagtctggc 360
 ggacgcgta caggaacgt gacattggcc gagggacccc cggccgaatt catgcacggg 420
 cccaggtgc tggcacgctg ctccgagtggt gcttgcctc ccttggctgc cacctctgcg 480
 ggggtgcgtc tggagggggg ggaccggcca ccaaccttac ccagtcaagg aagtggatgg 540
 ccatgttccc acagcctgag tggctgccac ctgatggctg atggagcaaa ggccttagga 600
 aaagcagatg gcccttggcc ctacctttt gttagaagaa ctgatgttcc atgtcctgca 660
 gcgagtgagg ttggtggctg tgcccccagc tcctggcgcg ccctcgcaga ggtgactggt 720


```

tgctctttgg gccctcttgg ccttgcccag catgcacaag cctcagtgtg actactgtgc 780
tacaaatgga gccatatagg ggaaacgagc agccatctca ggagcaaggt gtatgtgtgc 840
tttgggggct ccagtccttg cctcaagggt cttatgtcac tgtgggcttc ttggttgtca 900
agaggcagac catag 915

```

<210> 835

<211> 304

<212> PRT

<213> Homo sapiens

<400> 835

```

Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
              5              10              15

```

```

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
              20              25              30

```

```

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
              35              40              45

```

```

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
              50              55              60

```

```

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
              65              70              75              80

```

```

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
              85              90              95

```

```

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
              100              105              110

```

```

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
              115              120              125

```

```

Leu Ala Glu Gly Pro Pro Ala Glu Phe Met His Gly Pro Gln Val Leu
              130              135              140

```

```

Ala Arg Cys Ser Glu Cys Ala Cys Pro Ala Leu Ala Ala Thr Ser Ala
              145              150              155              160

```

```

Gly Val Arg Leu Glu Gly Val Asp Arg Pro Pro Thr Leu Pro Ser Gln
              165              170              175

```

```

Gly Ser Gly Trp Pro Cys Ser His Ser Leu Ser Gly Cys His Leu Met
              180              185              190

```

```

Ala Asp Gly Ala Lys Ala Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr
              195              200              205

```

```

Leu Phe Val Arg Arg Thr Asp Val Pro Cys Pro Ala Ala Ser Glu Val
              210              215              220

```

```

Gly Gly Cys Ala Pro Ser Ser Trp Arg Ala Leu Ala Glu Val Thr Gly

```

CCCTCTTTGG GCCCTCTTGG CCTTGCCCAG CATGCACAAG CCTCAGTGTG ACTACTGTGC


```

<210> 836
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 836
cgaagtcacg tggaggccag cctc
24

<210> 837
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 837
cctgaccgaa ttcattaact ggcctggac
29

<210> 838
<211> 166
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (1)...(166)
<223> Xaa = Any Amino Acid

<400> 838
Met Gly His His His His His Val Glu Ala Ser Leu Ser Val Arg
1          5          10          15
His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile

```


20 25 30
 Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser
 35 40 45
 Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser Gly
 50 55 60
 Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val
 65 70 75 80
 Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp Pro
 85 90 95
 Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Xaa Gln Xaa
 100 105 110
 Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr
 115 120 125
 Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val Gly
 130 135 140
 Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile Glu
 145 150 155 160
 Lys Thr Val Gln Ala Ser
 165

<210> 839
 <211> 504
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(504)
 <223> n = A,T,C or G

<400> 839
 atgggccatc atcatcatca tcacgtggag gccagcctct ccgtacggca cccagagtac 60
 aacagaccct tgctcgctaa cgacctcatg ctcatcaagt tggacgaatc cgtgtccgag 120
 tctgacacca tccggagcat cagcattgct tcgcagtgcc ctaccgcggg gaactcttgc 180
 ctcgtttctg gctgggggtct gctggcgaaac ggcagaatgc ctaccgtgct gcagtgcgtg 240
 aacgtgtcgg tgggtgtctga ggaggtctgc agtaagctct atgaccgcgt gtaccacccc 300
 agcatgttct gcgccggcgg agggcaanac cagaangact cctgcaacgg tgactctggg 360
 gggcccctga tctgcaacgg gtacttgacg ggccttgtgt ctttcggaaa agccccgtgt 420
 ggccaagtgt gcgtgccagg tgtctacacc aacctctgca aattcactga gtggatagag 480
 aaaaccgtcc aggccagtta atga 504

<210> 840
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 840
 ctcagggttc cggagccgcg g

21

<210> 841


```
<400> 841
ctatagaatt cattacaaa aagctgggct ccagc
```

35

[illegible]

```
<210> 843
<211> 729
<212> DNA
<213> Homo sapiens
```

[illegible]

[illegible]

<220>
<223> PCR primer

```
<210> 845
<211> 33
<212> DNA
<213> Artificial Sequence
```

<220>
<223> PCR primer

<400> 845
catcgagaat tcactactct ctgactagat gtc 33

```
<210> 846
<211> 161
<212> PRT
<213> Homo sapiens
```

<400> 846
Met Gln His His His His His His Ala Gly Val Arg Asp Gln Gly Gln
1 5 10 15
Gly Ala Arg Trp Pro His Thr Gly Lys Arg Gly Pro Leu Leu Gln Gly
20 25 30
Leu Thr Trp Ala Thr Gly Gly His Cys Phe Ser Ser Glu Ser Gly
35 40 45
Ala Val Asp Gly Ala Gly Gln Lys Lys Asp Arg Ala Trp Leu Arg Cys

50		55		60											
Pro	Glu	Ala	Val	Ala	Gly	Phe	Pro	Leu	Gly	Ser	Asp	Cys	Arg	Glu	Gly
65					70					75				80	
Gly	Arg	Gln	Gly	Cys	Gly	Gly	Ser	Asp	Asp	Glu	Asp	Asp	Leu	Gly	Val
			85						90					95	
Ala	Pro	Gly	Leu	Ala	Pro	Ala	Trp	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Gln
			100					105					110		
Ser	Pro	Gly	Pro	Gln	Ser	Leu	Pro	Ser	Thr	Pro	Ser	Ser	Ile	Trp	Pro
		115					120				125				
Gln	Trp	Val	Ile	Leu	Ile	Thr	Glu	Leu	Thr	Ile	Pro	Ser	Pro	Ala	His
	130					135					140				
Gly	Pro	Pro	Trp	Leu	Pro	Asn	Ala	Leu	Glu	Arg	Gly	His	Leu	Val	Arg
145					150					155					160
Glu															

<210> 847
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 847	
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cctcacacag ggaagagagg gccctcctg cagggcctca cctgggccac aggaggacac	120
tgcttttcct ctgaggagtc aggagctgtg gatggtgctg gacagaagaa ggacagggcc	180
tggtcaggt gtccagaggc tgctgctggc ttccctttgg gatcagactg cagggagggg	240
gggcggcagg gttgtggggg gagtgacgat gaggatgacc tgggggtggc tccaggcctt	300
gccctgcct ggccctcac ccagcctccc tcacagtctc ctggccctca gtctctcccc	360
tccactccat cctccatctg gcctcagtgg gtcattctga tcaactgaact gaccataccc	420
agccctgccc acggccctcc atggctcccc aatgccctgg agaggggaca tctagtcaga	480
gagtagtga	489

<210> 848
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 848	
Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe	
1	15
Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser	
20	30
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly	
35	45
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val	
50	60
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val	
65	80
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala	
85	95
Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp	
100	110

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Phe	Leu	Gly	Leu	Gly	Val	Val	Asp	Asn	Asn	Gly	Asn	Gly	Ala	Arg	Val	
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Gln	Arg	Val	Val	Gly	Ser	Ala	Pro	Ala	Ala	Ser	Leu	Gly	Ile	Ser	Thr	
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Gly	Asp	Val	Ile	Thr	Ala	Val	Asp	Gly	Ala	Pro	Ile	Asn	Ser	Ala	Thr	
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Ala	Met	Ala	Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser	
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Val	Thr	Trp	Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr	
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Ala	Leu	Ser	Leu	Gly	Ile	Leu	Leu	Ser	Leu	Phe	Leu	Ile	Pro	Arg	Ala	
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Gly	Trp	Leu	Ala	Gly	Leu	Leu	Cys	Pro	Asp	Pro	Arg	Pro	Leu	Glu	Leu	
	210					215					220					
Ala	Leu	Leu	Ile	Leu	Gly	Val	Gly	Leu	Leu	Asp	Phe	Cys	Gly	Gln	Val	
225					230					235					240	

Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro
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 Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu
 260 265 270
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 Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu
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 Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala
 325 330 335
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 340 345 350
 Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg
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<210> 853
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 <212> PRT
 <213> Homo sapiens

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<210> 855
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<212> PRT
<213> Homo sapiens
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<213> Homo sapiens
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<400> 856
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<212> PRT
<213> Homo sapiens
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<210> 865


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<210> 877
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 ctattatagc atctctgact tttctttaca ctcttctgag ggaagtaatt cacccttttag 360
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 taacaagaaa gcagtttggg cttctcagtt tcttttttgc tgtactgcat gcaatttata 600
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<210> 879
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 <212> PRT
 <213> Homo sapiens

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 20 25 30

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Pro	Leu	Ala	Thr	Ser	His	Gln	Gln	Tyr	Phe	Tyr	Lys	Ile	Pro	Ile	Leu
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		275				280						285			
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290						295				300					
Lys	Ser	Ile	Leu	Phe	Leu	Pro	Cys	Leu	Arg	Lys	Lys	Ile	Leu	Lys	Ile
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Ser Gln Leu

<210> 880
 <211> 2172
 <212> DNA
 <213> Homo sapiens

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<210> 881
 <211> 2455

<212> DNA
<213> Homo sapiens

<400> 881

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<210> 882
<211> 2455
<212> DNA
<213> Homo sapiens

<400> 882

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```

<210> 883

<211> 62

<212> PRT

<213> Homo sapiens

<400> 883

```

Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn
              5                      10                      15

```

```

His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
              20                      25                      30

```

```

Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Glu
              35                      40                      45

```


[illegible]

```

<400> 884
Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg
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Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
      20                                25                                30

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
      35                                40                                45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
      50                                55                                60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
      65                                70                                75                                80

Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
      85                                90                                95

Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro
      100                                105                                110

Lys Cys Trp Gly Tyr Arg His Lys Pro Pro His Pro Ala Cys His Ile
      115                                120                                125

Leu Leu Asn Tyr Gln Val Ser
      130                                135

```

```

<400> 885
Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln
              5              10              15

Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His
              20              25              30

Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
      35              40              45

```


<400> 888
Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp


```

<210> 889
<211> 80
<212> PRT
<213> Homo sapiens

<400> 889
Met Leu Leu His Ser Ser Leu Val Asn Arg Ala Arg Leu Cys Leu Lys
          5                      10                      15

Asn Lys Gln Ile Asn Lys Gln Thr Asn Lys Thr Glu Arg Phe Cys Cys
          20                      25                      30

Asn Val Gln Gly Ala Ile Cys Ser Phe Lys Lys Ile Ile Phe Gly Gln
          35                      40                      45

Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala Lys Val
          50                      55                      60

Gly Gly Ser Phe Glu Val Arg Ser Leu Arg Ser Ala Trp Pro Thr Trp
          65                      70                      75                      80

```

```

<210> 890
<211> 72
<212> PRT
<213> Homo sapiens

<400> 890
Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro His Asn Pro
              5                      10                      15

Ile Thr Ser His Gln Val Ser Ser Asp Thr Trp Asp Trp Val Gly Thr
              20                      25                      30

Gln Ser Gln Thr Val Ser Asp Ala Ala Gly Ala Gly Asp Thr Glu Thr
              35                      40                      45

Thr Gln Thr Trp Cys Leu Cys His Ser Ser Gly Leu Cys Leu Ser Pro
              50                      55                      60

```


Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
5 10 15

<210>	894					
<211>	2479					
<212>	DNA					
<213>	Homo sapiens					
<400>	894					
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cggaaaaccc	ctatcccgca	cagcccactg	tggtccccac	tgtctacgag	gtgcatccgg	180
ctcagtacta	cccgcccccc	gtgccccagt	acgccccgag	ggctcctgacg	caggcttcca	240
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```
<210> 895
<211> 492
<212> PRT
<213> Homo sapiens
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			20					25					30			
Val	Pro	Thr	Val	Tyr	Glu	Val	His	Pro	Ala	Gln	Tyr	Tyr	Pro	Ser	Pro	
		35					40					45				
Val	Pro	Gln	Tyr	Ala	Pro	Arg	Val	Leu	Thr	Gln	Ala	Ser	Asn	Pro	Val	
	50					55					60					
Val	Cys	Thr	Gln	Pro	Lys	Ser	Pro	Ser	Gly	Thr	Val	Cys	Thr	Ser	Lys	
65					70					75					80	
Thr	Lys	Lys	Ala	Leu	Cys	Ile	Thr	Leu	Thr	Leu	Gly	Thr	Phe	Leu	Val	
				85					90					95		
Gly	Ala	Ala	Leu	Ala	Ala	Gly	Leu	Leu	Trp	Lys	Phe	Met	Gly	Ser	Lys	
			100					105					110			
Cys	Ser	Asn	Ser	Gly	Ile	Glu	Cys	Asp	Ser	Ser	Gly	Thr	Cys	Ile	Asn	
		115					120					125				
Pro	Ser	Asn	Trp	Cys	Asp	Gly	Val	Ser	His	Cys	Pro	Gly	Gly	Glu	Asp	
	130					135					140					
Glu	Asn	Arg	Cys	Val	Arg	Leu	Tyr	Gly	Pro	Asn	Phe	Ile	Leu	Gln	Met	
145					150					155					160	
Tyr	Ser	Ser	Gln	Arg	Lys	Ser	Trp	His	Pro	Val	Cys	Gln	Asp	Asp	Trp	
			165						170					175		
Asn	Glu	Asn	Tyr	Gly	Arg	Ala	Ala	Cys	Arg	Asp	Met	Gly	Tyr	Lys	Asn	
			180					185					190			
Asn	Phe	Tyr	Ser	Ser	Gln	Gly	Ile	Val	Asp	Asp	Ser	Gly	Ser	Thr	Ser	
	195						200					205				

Phe 210	Met	Lys	Leu	Asn	Thr	Ser 215	Ala	Gly	Asn	Val	Asp 220	Ile	Tyr	Lys	Lys
Leu 225	Tyr	His	Ser	Asp	Ala 230	Cys	Ser	Ser	Lys	Ala 235	Val	Val	Ser	Leu	Arg 240
Cys	Leu	Ala	Cys	Gly 245	Val	Asn	Leu	Asn	Ser 250	Ser	Arg	Gln	Ser	Arg 255	Ile
Val	Gly	Gly	Glu 260	Ser	Ala	Leu	Pro	Gly 265	Ala	Trp	Pro	Trp	Gln 270	Val	Ser
Leu	His	Val 275	Gln	Asn	Val	His	Val 280	Cys	Gly	Gly	Ser	Ile 285	Ile	Thr	Pro
Glu 290	Trp	Ile	Val	Thr	Ala	Ala 295	His	Cys	Val	Glu	Lys 300	Pro	Leu	Asn	Asn
Pro 305	Trp	His	Trp	Thr	Ala 310	Phe	Ala	Gly	Ile	Leu 315	Arg	Gln	Ser	Phe	Met 320
Phe	Tyr	Gly	Ala	Gly 325	Tyr	Gln	Val	Gln	Lys 330	Val	Ile	Ser	His	Pro 335	Asn
Tyr	Asp	Ser	Lys 340	Thr	Lys	Asn	Asn	Asp 345	Ile	Ala	Leu	Met	Lys 350	Leu	Gln
Lys	Pro	Leu 355	Thr	Phe	Asn	Asp	Leu 360	Val	Lys	Pro	Val	Cys 365	Leu	Pro	Asn
Pro 370	Gly	Met	Met	Leu	Gln	Pro 375	Glu	Gln	Leu	Cys	Trp 380	Ile	Ser	Gly	Trp
Gly 385	Ala	Thr	Glu	Glu	Lys 390	Gly	Lys	Thr	Ser	Glu 395	Val	Leu	Asn	Ala	Ala 400
Lys	Val	Leu	Leu	Ile 405	Glu	Thr	Gln	Arg	Cys 410	Asn	Ser	Arg	Tyr	Val 415	Tyr
Asp	Asn	Leu	Ile 420	Thr	Pro	Ala	Met	Ile 425	Cys	Ala	Gly	Phe	Leu 430	Gln	Gly
Asn	Val	Asp 435	Ser	Cys	Gln	Gly	Asp 440	Ser	Gly	Gly	Pro	Leu 445	Val	Thr	Ser
Asn 450	Asn	Asn	Ile	Trp	Trp	Leu 455	Ile	Gly	Asp	Thr	Ser 460	Trp	Gly	Ser	Gly
Cys 465	Ala	Lys	Ala	Tyr	Arg 470	Pro	Gly	Val	Tyr	Gly 475	Asn	Val	Met	Val	Phe 480
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<400> 897															
Met	Ala	Leu	Asn	Ser	Gly	Ser	Pro	Pro	Ala	Ile	Gly	Pro	Tyr	Tyr	Glu
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Asn	His	Gly	Tyr	Gln	Pro	Glu	Asn	Pro	Tyr	Pro	Ala	Gln	Pro	Thr	Val
			20					25					30		
Val	Pro	Thr	Val	Tyr	Glu	Val	His	Pro	Ala	Gln	Tyr	Tyr	Pro	Ser	Pro
		35					40					45			
Val	Pro	Gln	Tyr	Ala	Pro	Arg	Val	Leu	Thr	Gln	Ala	Ser	Asn	Pro	Val
	50					55					60				
Val	Cys	Thr	Gln	Pro	Lys	Ser	Pro	Ser	Gly	Thr	Val	Cys	Thr	Ser	Lys
65					70					75					80
Thr	Lys	Lys	Ala	Leu	Cys	Ile	Thr	Leu	Thr	Leu	Gly	Thr	Phe	Leu	Val
				85					90					95	
Gly	Ala	Ala	Leu	Ala	Ala	Gly	Leu	Leu	Trp	Lys	Phe	Met	Gly	Ser	Lys
			100					105					110		
Cys	Ser	Asn	Ser	Gly	Ile	Glu	Cys	Asp	Ser	Ser	Gly	Thr	Cys	Ile	Asn
		115					120					125			
Pro	Ser	Asn	Trp	Cys	Asp	Gly	Val	Ser	His	Cys	Pro	Gly	Gly	Glu	Asp
	130					135					140				
Glu	Asn	Arg	Cys	Val	Arg	Leu	Tyr	Gly	Pro	Asn	Phe	Ile	Leu	Gln	Met
145					150					155					160
Tyr	Ser	Ser	Gln	Arg	Lys	Ser	Trp	His	Pro	Val	Cys	Gln	Asp	Asp	Trp
				165					170					175	
Asn	Glu	Asn	Tyr	Gly	Arg	Ala	Ala	Cys	Arg	Asp	Met	Gly	Tyr	Lys	Asn
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```
<210> 898
<211> 27
<212> PRT
<213> Homo sapiens
```

```
<210> 899
<211> 35
<212> DNA
<213> Artificial Sequence
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```
<400> 899
ggatccgccg ccaccatgtc actttctagc ctgct
```

<220>
<223> PCR primer

```
<210> 901
<211> 34
<212> DNA
<213> Artificial Sequence
```

```
<400> 901
ggatccgccg ccaccatggg ctgcaggctg ctct
```

```
<210> 902
<211> 27
<212> DNA
<213> Artificial Sequence
```

35

27

34

<220>
<223> PCR primer

<400> 902
gtcgaactcag aaatcctttc tcttgac

27

<210> 903
<211> 936
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...()
<223> n = A,T,C or G

<400> 903
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acgggagtta cgcagacacc aagacacctg gtcattggaa tgacaaataa gaagtctttg 120
aaatgtgaac aacatctggg tcataacgct atgtatttgt acaagcaaag tgctaagaag 180
ccactggagc tcatgtttgt ctacagtctt gaagaacggg ttgaaaacaa cagtgtgcca 240
agtcgcttct cacctgaatg ccccaacagc tctcacttat tccttcacct acacacctg 300
cagccagaag actcggccct gtatctctgc gccagcagcc aagaccggac aagcagctcc 360
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<210> 904
<211> 834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...()
<223> n = A,T,C or G

<400> 904
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ctggactgca catatgacac cagtgatcaa agttatggc tcttctggta caagcagccc 180
agcagtgggg aaatgatatt tcttatttat caggggtcct atgacgagca aaatgaaca 240
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gcttcacaac tgggggagtc agcaatgtat ttctgtgcaa tgagagaggg cgcgggagga 360
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gacacctttc	tccccagccc	agaaagttcc	tgtgatgtca	agctgggtcg	gaaaagcttt	720
gaacacgata	cgaacctaaa	ctttcaaaac	ctgtcagtga	tggggtccg	aatctcctc	780
ctgaaagtg	ccgggtttta	tctgctcatg	acgctgcggc	tgtgggtccg	ctga	834

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<220>  
<221> variant  
<222> (1)...(311)  
<223> Xaa = Any amino acid
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Asn Ala Met Tyr Trp Tyr Lys Gln Ser Ala Lys Lys Pro Leu Glu Leu
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Ser Arg Phe Ser Pro Glu Cys Pro Asn Ser Ser His Leu Phe Leu His
85 90 95

Ser Gln Asp Arg Thr Ser Ser Ser Tyr Glu Gln Tyr Phe Gly Pro Gly
115 120 125

Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys
145 150 155 160

Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr
180 185 190

Ala Met Arg Glu Gly Ala Gly Gly Gly Asn Lys Leu Thr Phe Gly Thr

115 120 125
 Gly Thr Gln Leu Lys Val Glu Leu Asn Ile Gln Asn Pro Asp Pro Ala
 130 135 140
 Val Tyr Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu
 145 150 155 160
 Phe Thr Asp Phe Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser
 165 170 175
 Asp Val Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp
 180 185 190
 Phe Lys Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala
 195 200 205
 Cys Ala Asn Ala Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe
 210 215 220
 Pro Ser Pro Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe
 225 230 235 240
 Glu Thr Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe
 245 250 255
 Arg Ile Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu
 260 265 270
 Arg Leu Trp Ser Ser
 275

<210> 907

<211> 1536

<212> DNA

<213> Homo sapiens

<400> 907

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<210> 908

<211> 1533

<212> DNA

<213> Homo sapiens

<400> 908

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<210> 909

<211> 511

<212> PRT

<213> Homo sapiens

<400> 909

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10

15

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Arg	Lys	His	Thr	Gln	Trp	Thr	Tyr	Gly	Pro	Leu	Thr	Ser	Thr	Leu	Tyr
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Asp	Leu	Thr	Glu	Ile	Asp	Ser	Ser	Gly	Asp	Glu	Gln	Ser	Leu	Leu	Glu
65					70				75						80
Leu	Ile	Ile	Thr	Thr	Lys	Lys	Arg	Glu	Ala	Arg	Gln	Ile	Leu	Asp	Gln
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Thr	Pro	Val	Lys	Glu	Leu	Val	Ser	Leu	Lys	Trp	Lys	Arg	Tyr	Gly	Arg
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Pro	Tyr	Phe	Cys	Met	Leu	Gly	Ala	Ile	Tyr	Leu	Leu	Tyr	Ile	Ile	Cys
			115				120					125			
Phe	Thr	Met	Cys	Cys	Ile	Tyr	Arg	Pro	Leu	Lys	Pro	Arg	Thr	Asn	Asn
			130			135					140				
Arg	Thr	Ser	Pro	Arg	Asp	Asn	Thr	Leu	Leu	Gln	Gln	Lys	Leu	Leu	Gln
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Glu	Ala	Tyr	Met	Thr	Pro	Lys	Asp	Asp	Ile	Arg	Leu	Val	Gly	Glu	Leu
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Val	Thr	Val	Ile	Gly	Ala	Ile	Ile	Ile	Leu	Leu	Val	Glu	Val	Pro	Asp
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Ile	Phe	Arg	Met	Gly	Val	Thr	Arg	Phe	Phe	Gly	Gln	Thr	Ile	Leu	Gly
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Gly	Pro	Phe	His	Val	Leu	Ile	Ile	Thr	Tyr	Ala	Phe	Met	Val	Leu	Val
			210			215					220				
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225					230				235					240	
Ser	Phe	Ala	Leu	Val	Leu	Gly	Trp	Cys	Asn	Val	Met	Tyr	Phe	Ala	Arg
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Gly	Phe	Gln	Met	Leu	Gly	Pro	Phe	Thr	Ile	Met	Ile	Gln	Lys	Met	Ile
			260				265						270		
Phe	Gly	Asp	Leu	Met	Arg	Phe	Cys	Trp	Leu	Met	Ala	Val	Val	Ile	Leu
			275			280					285				
Gly	Phe	Ala	Ser	Ala	Phe	Tyr	Ile	Ile	Phe	Gln	Thr	Glu	Asp	Pro	Glu
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Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys
35 40 45

Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr
50 55 60

Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu
65 70 75 80

Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln
85 90 95

Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg
100 105 110

Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys
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Phe Thr Met Cys Cys Ile
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<210> 911

<211> 55

<212> PRT

<213> Homo sapiens

<400> 911

Ala Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr Ser Pro Arg
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Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala Tyr Met Thr
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Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu Val Thr Val Ile Gly
35 40 45

Ala Ile Ile Ile Leu Leu Val
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<210> 912

<211> 39

<212> PRT

<213> Homo sapiens

<400> 912

Glu Val Pro Asp Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln
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Thr Ile Leu Gly Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe
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Met Val Leu Val Thr Met Val
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106250"41656660

<210> 913
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 913
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 Leu Val Leu

<210> 914
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 914
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 35 40 45
 Tyr Ile Ile Phe
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<210> 915
 <211> 213
 <212> PRT
 <213> Homo sapiens

<400> 915
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 35 40 45
 Ala Phe Ala Ile Ile Ala Thr Leu Leu Met Leu Asn Leu Leu Ile Ala
 50 55 60
 Met Met Gly Asp Thr His Trp Arg Val Ala His Glu Arg Asp Glu Leu
 65 70 75 80

Trp290:1-2300

Trp Arg Ala Gln Ile Val Ala Thr Thr Val Met Leu Glu Arg Lys Leu
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 Pro Arg Cys Leu Trp Pro Arg Ser Gly Ile Cys Gly Arg Glu Tyr Gly
 100 105 110
 Leu Gly Asp Arg Trp Phe Leu Arg Val Glu Asp Arg Gln Asp Leu Asn
 115 120 125
 Arg Gln Arg Ile Gln Arg Tyr Ala Gln Ala Phe His Thr Arg Gly Ser
 130 135 140
 Glu Asp Leu Asp Lys Asp Ser Val Glu Lys Leu Glu Leu Gly Cys Pro
 145 150 155 160
 Phe Ser Pro His Leu Ser Leu Pro Met Pro Ser Val Ser Arg Ser Thr
 165 170 175
 Ser Arg Ser Ser Ala Asn Trp Glu Arg Leu Arg Gln Gly Thr Leu Arg
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 195 200 205
 Trp Glu Tyr Gln Ile
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<210> 916
 <211> 1302
 <212> DNA
 <213> Homo sapiens

<400> 916
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<210> 917
<211> 2061
<212> DNA
<213> Homo sapiens
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<210> 918
<211> 957
<212> DNA
<213> Homo sapiens
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<400> 918
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<210> 919
<211> 954
<212> DNA
<213> Homo sapiens

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<210> 920
<211> 318
<212> PRT
<213> Homo sapiens

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      20                      25                      30

Pro Leu Cys Ser Leu Tyr Leu Ile Ala Val Leu Gly Asn Leu Thr Ile
      35                      40                      45

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<210> 921

<213> Homo sapiens

Leu Ile Gly Leu Pro Gly Leu Glu Glu Ala Gln Phe
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<213> Homo sapiens

Arg Thr Glu His Ser Leu His Glu Pro
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<213> Homo sapiens

Ala Cys Leu Leu Gln
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<213> Homo sapiens

Thr Leu Pro Arg
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<213> Homo sapiens

<400> 925

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<210>	930
<211>	1479

<212> DNA
<213> Homo sapiens

<400> 930

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<210> 931
<211> 1476
<212> DNA
<213> Homo sapiens

<400> 931

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<210> 932

<211> 492

<212> PRT

<213> Homo sapiens

<400> 932

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      20      25      30
Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
      35      40      45
Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
      50      55      60
Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
      65      70      75      80
Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
      85      90      95
Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
      100     105     110
Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
      115     120     125
Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
      130     135     140
Glu Asn Arg Cys Val Arg Leu Tyr Gly Ser Asn Phe Ile Leu Gln Val
      145     150     155     160
Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
      165     170     175
Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
      180     185     190
Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
      195     200     205
Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys
      210     215     220
Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg
      225     230     235     240
Cys Ile Ala Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile
      245     250     255
Val Gly Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser
      260     265     270
Leu His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro
      275     280     285
Glu Trp Ile Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn
      290     295     300

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106590143660

Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met
 305 310 315 320
 Phe Tyr Gly Ala Gly Tyr Gln Val Glu Lys Val Ile Ser His Pro Asn
 325 330 335
 Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln
 340 345 350
 Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn
 355 360 365
 Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp
 370 375 380
 Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala
 385 390 395 400
 Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr
 405 410 415
 Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly
 420 425 430
 Asn Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser
 435 440 445
 Lys Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly
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 Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe
 465 470 475 480
 Thr Asp Trp Ile Tyr Arg Gln Met Arg Ala Asp Gly
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 <212> PRT
 <213> Homo sapiens

<400> 933
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 Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
 20 25 30
 Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
 35 40 45
 Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
 50 55 60
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
 65 70 75 80
 Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
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 Gly Ala Ala Leu
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<400> 934

FOOEEH: OEEH

[illegible]

<210>	935
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<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 935

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22

<210> 936

<211> 36

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36

<210> 937

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<212> DNA

<213> Artificial Sequence

<220>

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<400> 937

gtgctgtggg agtccccgcg gc

22

<210> 938

<211> 1158

<212> DNA

<213> Homo sapiens

<400> 938

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gcccggccgg tgaagctcgc tgctttccct acctccttaa gtgactgcca aacgcccacc 180
ggctggaatt gctctgggta tgatgacaga gaaaatgatc tcttcctctg tgacaccaac 240
acctgtaaat ttgatgggga atgtttaaga attggagaca ctgtgacttg cgtctgtcag 300
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gaagatgccg aggatgtctg gtgtgtgtgt aatattgact gttctcaaac caacttcaat 600
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acaactacta agtctgaaga tgggcattat gcaagaacag attatgcaga gaatgctaac 780
aaattagaag aaagtgccag agaacaccac ataccttgtc cggaacatta caatggcttc 840
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<213> Homo sapiens
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<210> 940
<211> 336
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<213> Homo sapiens
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<400> 940																
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				5					10					15		
Asn	Cys	Ser	Gly	Tyr	Asp	Asp	Arg	Glu	Asn	Asp	Leu	Phe	Leu	Cys	Asp	
			20					25					30			
Thr	Asn	Thr	Cys	Lys	Phe	Asp	Gly	Glu	Cys	Leu	Arg	Ile	Gly	Asp	Thr	
		35					40					45				
Val	Thr	Cys	Val	Cys	Gln	Phe	Lys	Cys	Asn	Asn	Asp	Tyr	Val	Pro	Val	
	50					55					60					
Cys	Gly	Ser	Asn	Gly	Glu	Ser	Tyr	Gln	Asn	Glu	Cys	Tyr	Leu	Arg	Gln	
65					70					75					80	
Ala	Ala	Cys	Lys	Gln	Gln	Ser	Glu	Ile	Leu	Val	Val	Ser	Glu	Gly	Ser	
				85					90					95		
Cys	Ala	Thr	Asp	Ala	Gly	Ser	Gly	Ser	Gly	Asp	Gly	Val	His	Glu	Gly	
		100						105					110			
Ser	Gly	Glu	Thr	Ser	Gln	Lys	Glu	Thr	Ser	Thr	Cys	Asp	Ile	Cys	Gln	
		115					120					125				
Phe	Gly	Ala	Glu	Cys	Asp	Glu	Asp	Ala	Glu	Asp	Val	Trp	Cys	Val	Cys	
	130					135					140					


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<210> 941
<211> 381
<212> PRT
<213> Homo sapiens
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<400>	941															
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				5					10					15		
Cys	Ser	Ser	Trp	Thr	Leu	Cys	Glu	Gly	Phe	Cys	Trp	Leu	Leu	Leu	Leu	
			20					25					30			
Pro	Val	Met	Leu	Leu	Ile	Val	Ala	Arg	Pro	Val	Lys	Leu	Ala	Ala	Phe	
		35					40					45				
Pro	Thr	Ser	Leu	Ser	Asp	Cys	Gln	Thr	Pro	Thr	Gly	Trp	Asn	Cys	Ser	
	50					55					60					
Gly	Tyr	Asp	Asp	Arg	Glu	Asn	Asp	Leu	Phe	Leu	Cys	Asp	Thr	Asn	Thr	
65					70					75					80	
Cys	Lys	Phe	Asp	Gly	Glu	Cys	Leu	Arg	Ile	Gly	Asp	Thr	Val	Thr	Cys	
				85					90					95		
Val	Cys	Gln	Phe	Lys	Cys	Asn	Asn	Asp	Tyr	Val	Pro	Val	Cys	Gly	Ser	
			100					105					110			
Asn	Gly	Glu	Ser	Tyr	Gln	Asn	Glu	Cys	Tyr	Leu	Arg	Gln	Ala	Ala	Cys	
		115					120					125				
Lys	Gln	Gln	Ser	Glu	Ile	Leu	Val	Val	Ser	Glu	Gly	Ser	Cys	Ala	Thr	
	130					135					140					
Asp	Ala	Gly	Ser	Gly	Ser	Gly	Asp	Gly	Val	His	Glu	Gly	Ser	Gly	Glu	
145					150					155					160	
Thr	Ser	Gln	Lys	Glu	Thr	Ser	Thr	Cys	Asp	Ile	Cys	Gln	Phe	Gly	Ala	
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<210> 942
<211> 45
<212> DNA
<213> Homo sapiens
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<210> 943
<211> 15
<212> PRT
<213> Homo sapiens
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<210> 944
<211> 1883
<212> DNA
<213> Homo sapiens
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<400> 944
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tgtgaacttc	actactggaa	agcaacaaag	gcagtcggca	taaaaatggg	ttctctcagc	180
acagctaacg	ttgaattttg	ccttgatgtg	ttcaaagagc	tgaacagtaa	caacatagga	240
gataacatct	tcttttcttc	gctgagtcctg	ctttatgctc	taagcatggg	cctccttggt	300
gccaggggag	agactgcaga	gcaattggag	aagggtgcttc	atttttagtca	tactgtagac	360
tcattaaaaac	caggggttcaa	ggactcacct	aagtgcagcc	aagctggaag	aattcattcc	420
gagtttggtg	tcgaattctc	tcaaatacaac	cagccagact	ctaactgtac	cctcagcatt	480
gccaacaggc	tctacgggac	aaagacgatg	gcatttcatc	agcaatattt	aagctgttct	540
gagaaatggg	atcaagccag	gttgcaaact	gtggattttg	aacagtctac	agaagaaacg	600
aggaaaatga	ttaatgcttg	ggttgaaaaat	aaaactaatg	gaaaagtcgc	aatctctttt	660
ggaaaagagca	caattgacct	ttcatctgta	atggctcctgg	tgaataccat	atatttcaaa	720
ggacaaaaggc	aaaataaatt	tcaaggtaaa	aatgttaactg	tggaaatgat	gtatcaaatt	780
ggaacatttta	aactggcctt	tgtaaaggag	ccgcagatgc	aagttcttga	gctgccctac	840
gttaacaaca	aattaagcat	gattattctg	cttcagtag	gcatagctaa	tctgaaacag	900
atagaaaagc	agctgaattc	ggggacgttt	catgagtga	caagctcttc	taacatgatg	960
gaaagagaag	ttgaagtaca	cctccccaga	ttcaaacttg	aaattaagta	tgagctaaat	1020
tccctgttaa	aacctctagg	ggtgacagat	ctcttcaacc	aggtcaaagc	tgatctttct	1080
ggaatgtcac	caaccaaggg	cctatatatta	tcaaaaagcca	tccacaagtc	atacctggat	1140
gtcagcgaag	agggcacgga	ggcagcagca	gccactgggg	acagcatcgc	tgtaaaaaagc	1200
ctaccaatga	gagctcagtt	caaggcgaaac	cacccttcc	tggtctttat	aaggcacact	1260
cataccaaca	cgatcctatt	ctgtggcaag	cttgcccttc	cctaatacaga	tgggggttgag	1320
taaggctcag	agttgcagat	gaggtgcaga	gacaatcctg	tgactttccc	acggccaaaa	1380
agctgttcac	acctcacaca	cctctgtgcc	tcagtttgct	catctgcaaa	ataggtctag	1440
gatttcttcc	aaccatttca	tgagttgtga	agctaaggct	ttgttaatca	tggaataaagg	1500
tagacttatg	cagaaagcct	ttctggcctt	cttatctgtg	gtgtctcatt	tgagtgtctg	1560
ccagtgcag	gatcaagtca	atgagtaaaa	ttttaaggga	ttagattttc	ttgacttgta	1620
tgtatctgtg	agatcttgaa	taagtgcact	gacatctctg	cttaaagaaa	accagctgaa	1680
gggcttcaac	tttgcttgga	tttttaataa	ttttccttgc	atatgtaaat	agaatgtggg	1740
gagttttagt	tcaaaattct	ctgttgagaa	taataaatgc	atgaaatacc	ttaaagctct	1800
gtgaagactt	gtaacatggc	agcaatcaaa	tggcttataa	aaggatactt	tgaatgtgga	1860
taaattgaaa	aaaaaaaaaa	aaa				1883

<210> 945

<211> 2471

<212> DNA

<213> Homo sapiens

<400> 945

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tcttcgctga	gtctgcttta	tgctctaagc	atggctctcc	ttggtgccag	gggagagact	180
gcagagcaat	tggagaagg	gcttcatttt	agtcatactg	tagactcatt	aaaaccagg	240
ttcaaggact	cacctaagtg	cagccaagct	ggaagaattc	attccgagtt	tggtgtctaa	300
ttctctcaaa	tcaaccagcc	agactctaac	tgtaccctca	gcattgccaa	caggctctac	360
gggacaaaaga	cgatggcatt	tcatcagcaa	tatttaagct	gttctgagaa	atgggtatcaa	420
gccaggttgc	aaactgtgga	ttttgaacag	tctacagaag	aaacgaggaa	aacgattaat	480
gcttggttgc	aaaataaaaac	taatggaaaa	gtcgcaaatc	tctttggaaa	gagcacaatt	540
gacccttcat	ctgtaatggg	cctgggtgaat	gccatatatt	tcaaaggaca	atggcaaaat	600
aaattttcaag	taagagagac	agttaaaagt	ccttttcagc	taagtggagg	aagtatttta	660
ttttcagact	catgacaaat	gttgagggat	acaataatca	tttaaggaca	atttagaaag	720
atgtagtgat	ttagtgaaaa	tattgggtcta	ggtttctgtt	ggttcttttt	attgtatttt	780
ctacagatatt	tcatttttcc	tttattaagt	gacaataact	tttatcacag	agcacctaac	840
tgagagacttg	ggataactaag	attctctggc	agaggagaaa	acccattctt	ttcttaacgc	900
tctctcggt	tattctttcc	atatatactg	tggttatgtt	ctccagcagc	acactaaggc	960
tatctgtgtt	attttttttt	ctagagagtt	tcttgaggaa	agattaaaaa	gaaaatgatt	1020

Lys Thr Met Ala Phe His Gln Gln Tyr Leu Ser Cys Ser Glu Lys Trp

115					120					125					
Tyr	Gln	Ala	Arg	Leu	Gln	Thr	Val	Asp	Phe	Glu	Gln	Ser	Thr	Glu	Glu
130					135					140					
Thr	Arg	Lys	Met	Ile	Asn	Ala	Trp	Val	Glu	Asn	Lys	Thr	Asn	Gly	Lys
145					150					155					160
Val	Ala	Asn	Leu	Phe	Gly	Lys	Ser	Thr	Ile	Asp	Pro	Ser	Ser	Val	Met
				165					170					175	
Val	Leu	Val	Asn	Thr	Ile	Tyr	Phe	Lys	Gly	Gln	Arg	Gln	Asn	Lys	Phe
			180					185					190		
Gln	Gly	Lys	Asn	Val	Thr	Val	Glu	Met	Met	Tyr	Gln	Ile	Gly	Thr	Phe
		195					200					205			
Lys	Leu	Ala	Phe	Val	Lys	Glu	Pro	Gln	Met	Gln	Val	Leu	Glu	Leu	Pro
		210					215					220			
Tyr	Val	Asn	Asn	Lys	Leu	Ser	Met	Ile	Ile	Leu	Leu	Pro	Val	Gly	Ile
225							230					235			240
Ala	Asn	Leu	Lys	Gln	Ile	Glu	Lys	Gln	Leu	Asn	Ser	Gly	Thr	Phe	His
				245					250					255	
Glu	Trp	Thr	Ser	Ser	Ser	Asn	Met	Met	Glu	Arg	Glu	Val	Glu	Val	His
			260					265					270		
Leu	Pro	Arg	Phe	Lys	Leu	Glu	Ile	Lys	Tyr	Glu	Leu	Asn	Ser	Leu	Leu
			275					280					285		
Lys	Pro	Leu	Gly	Val	Thr	Asp	Leu	Phe	Asn	Gln	Val	Lys	Ala	Asp	Leu
				290			295					300			
Ser	Gly	Met	Ser	Pro	Thr	Lys	Gly	Leu	Tyr	Leu	Ser	Lys	Ala	Ile	His
305							310					315			320
Lys	Ser	Tyr	Leu	Asp	Val	Ser	Glu	Glu	Gly	Thr	Glu	Ala	Ala	Ala	Ala
				325					330					335	
Thr	Gly	Asp	Ser	Ile	Ala	Val	Lys	Ser	Leu	Pro	Met	Arg	Ala	Gln	Phe
				340					345					350	
Lys	Ala	Asn	His	Pro	Phe	Leu	Phe	Phe	Ile	Arg	His	Thr	His	Thr	Asn
			355				360					365			
Thr	Ile	Leu	Phe	Cys	Gly	Lys	Leu	Ala	Ser	Pro					
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<210> 947

<211> 617

<212> PRT

$\langle 220 \rangle$ $\langle 222 \rangle \quad (1) \dots (617)$

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[illegible]

[illegible]

[illegible]

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atcctgcggg	acggcgcgca	gcggaaggc	ggccgcacga	gcagccagag	acagcgcgac	180
ccggagccgg	agccagagcc	agagccagag	ggaggacgca	gccgcgcgg	ggcgcagaac	240
gaccagctga	gcacagggcc	ccgcgcgcgc	ccggaggagg	ccgagacgct	ggcagagacc	300
gagccagaaa	ggcacttggg	gtcttatctg	ttggactctg	aaaacacttc	aggcgccctt	360
ccaaggcttc	ccaaaacccc	taagcagccg	cagaagcgct	cccgagctgc	cttctcccac	420
actcaggtga	tcgagttgga	gaggaagttc	agccatcaga	agtacctgtc	ggcccctgaa	480
cgggcccacc	tggccaagaa	cctcaagctc	acggagaccc	aagtgaagat	atggttccag	540
aacacgacgt	ataagactaa	gcgaaagcag	ctctcctcgg	agctgggaga	cttggagaag	600
cactcctctt	tgccggccct	gaaagaggag	gccttctccc	gggcctccct	ggtctccgtg	660
tataacagct	atccttacta	cccatacctg	tactgcgtgg	gcagctggag	cccagctttt	720
tggtaatga						729

<400> 949
Arg Glu Ile Ser Phe Glu Ala Cys Leu Thr Gln Met Phe Phe Ile His
1 5 10 15

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<210> 950
<211> 18
<212> PRT
<213> Homo sapiens
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<400> 950

Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg His Ala Ala Val Leu
 1 5 10 15
 Asn Asn

<210> 951

<211> 13

<212> PRT

<213> Homo sapiens

<400> 951

Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His
 1 5 10

<210> 952

<211> 15

<212> PRT

<213> Homo sapiens

<400> 952

His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu Pro Asn
 1 5 10 15

<210> 953

<211> 14

<212> PRT

<213> Homo sapiens

<400> 953

Arg Thr Val Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys
 1 5 10

<210> 954

<211> 12

<212> PRT

<213> Homo sapiens

<400> 954

His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
 1 5 10

<210> 955

<211> 15

<212> PRT

<213> Homo sapiens

<400> 955

Asn Pro Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg
 1 5 10 15

<210> 956

<211> 14

F06290-125600

[illegible]

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<212> PRT
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<213> Homo sapiens
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<210> 962
<211> 15
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[illegible]

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gggtgaaggta ctctacagtg tggtcattga ggacaaggtt acgagagagt cccaagtacg 120
tcacagggtca gccttgcggt aagcttgtgt gcttagagga acccagggta acgatggggc 180
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[illegible]

<211> 373

<213> Homo sapiens

Met Gly Gln Thr Glu Ser Lys Tyr Ala Ser Tyr Leu Ser Phe Ile Lys
5 10 15

Ile Leu Leu Arg Arg Gly Gly Val Arg Ala Ser Thr Glu Asn Leu Ile
20 25 30

Thr Leu Phe Gln Thr Ile Glu Gln Phe Cys Pro Trp Phe Pro Glu Gln
35 40 45

Gly Thr Leu Asp Leu Lys Asp Trp Glu Lys Ile Gly Lys Glu Leu Lys
50 55 60

Gln Ala Asn Arg Glu Gly Lys Ile Ile Pro Leu Thr Val Trp Asn Asp
65 70 75 80

Trp Ala Ile Ile Lys Ala Thr Leu Glu Pro Phe Gln Thr Gly Glu Asp
85 90 95

Ile Val Ser Val Ser Asp Ala Pro Lys Ser Cys Val Thr Asp Cys Glu
100 105 110

Glu Glu Ala Gly Thr Glu Ser Gln Gln Gly Thr Glu Ser Ser His Cys
115 120 125

Lys Tyr Val Ala Glu Ser Val Met Ala Gln Ser Thr Gln Asn Val Asp
130 135 140

Tyr Ser Gln Leu Gln Glu Ile Ile Tyr Pro Glu Ser Ser Lys Leu Gly

145 150 155 160
 Glu Gly Gly Pro Glu Ser Leu Gly Pro Ser Glu Pro Lys Pro Arg Ser
 165 170 175
 Pro Ser Thr Pro Pro Pro Val Val Gln Met Pro Val Thr Leu Gln Pro
 180 185 190
 Gln Thr Gln Val Arg Gln Ala Gln Thr Pro Arg Glu Asn Gln Val Glu
 195 200 205
 Arg Asp Arg Val Ser Ile Pro Ala Met Pro Thr Gln Ile Gln Tyr Pro
 210 215 220
 Gln Tyr Gln Pro Val Glu Asn Lys Thr Gln Pro Leu Val Val Tyr Gln
 225 230 235 240
 Tyr Arg Leu Pro Thr Glu Leu Gln Tyr Arg Pro Pro Ser Glu Val Gln
 245 250 255
 Tyr Arg Pro Gln Ala Val Cys Pro Val Pro Asn Ser Thr Ala Pro Tyr
 260 265 270
 Gln Gln Pro Thr Ala Met Ala Ser Asn Ser Pro Ala Thr Gln Asp Ala
 275 280 285
 Ala Leu Tyr Pro Gln Pro Pro Thr Val Arg Leu Asn Pro Thr Ala Ser
 290 295 300
 Arg Ser Gly Gln Gly Gly Ala Leu His Ala Val Ile Asp Glu Ala Arg
 305 310 315 320
 Lys Gln Gly Asp Leu Glu Ala Trp Arg Phe Leu Val Ile Leu Gln Leu
 325 330 335
 Val Gln Ala Gly Glu Glu Thr Gln Val Gly Ala Pro Ala Arg Ala Glu
 340 345 350
 Thr Arg Cys Glu Pro Phe Thr Met Lys Met Leu Lys Asp Ile Lys Glu
 355 360 365
 Gly Val Lys Gln Tyr
 370

<210> 969

<211> 50

<212> DNA

<213> Homo sapiens

<400> 969

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<210> 970
 <211> 31
 <212> DNA
 <213> Homo sapiens

<400> 970
 tctgcctgtg atgtctccgt acgtgtggtg g 31

<210> 971
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 971
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<210> 972
 <211> 60
 <212> DNA
 <213> Homo sapiens

<400> 972
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<210> 973
 <211> 30
 <212> DNA
 <213> Homo sapiens

<400> 973
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<210> 974
 <211> 24
 <212> DNA
 <213> Homo sapiens

<400> 974
 acggatttcg tgggcgaggg gctg 24

<210> 975
 <211> 32
 <212> DNA
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<400> 975
 ttttacacgg atttcgtggg cgaggggctg ta 32

<210> 976
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